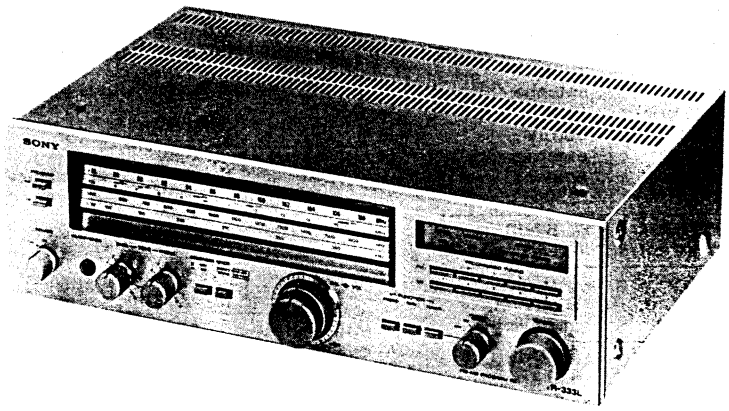
STR-333L

485

AEP Model
UK Model
SCN Model



FM-AM PROGRAM RECEIVER

SPECIFICATIONS

GENERAL

Power Requirements: 240 V ac (or 220 V ac adjustable by authorized Sony personnel), 50 Hz (UK model)
220 V ac (or 240 V ac adjustable by authorized Sony personnel), 50 Hz (AEP, SCN model)

Power Consumption: 240W (UK model)
180W (AEP, SCN model)

AC Outlets: Two unswitched, total 200W (not provided for a SCN model)

Dimensions: Approx. 430 (w) x 135 (h) x 295 (d) mm
17 (w) x 5¼ (h) x 11½ (d) inches
including projecting parts and controls

Weight: Approx. 6.9 kg, 15 lb 4 oz (net)
Approx. 8.0 kg, 17 lb 11 oz (in shipping carton)

FM SECTION

Frequency Range: 87.5—108 MHz

Antenna Terminals: 300 Ω balanced
75 Ω unbalanced

Intermediate Frequency: 10.7 MHz

Sensitivity at 50 dB Quieting: 3.5 μV, 16.1 dBf (MONO)
45 μV, 38.3 dBf (STEREO)

Sensitivity at 46 dB Quieting: (at 40 kHz deviation) 4.0 μV (MONO)
50 μV (STEREO)

Usable Sensitivity: IHF 1.9 μV, 10.8 dBf
1.6 μV (S/N = 26 dB, 40 kHz deviation)

S/N Ratio: 75 dB (MONO)
70 dB (STEREO)

Harmonic Distortion: At 1 kHz
0.15% (MONO)
0.3% (STEREO)

IM Distortion: 0.15% (MONO)
0.3% (STEREO)

Separation: 45 dB at 1 kHz

Frequency Response: 40 Hz—12.5 kHz $^{+0.5}_{-1}$ dB (DIN)
30 Hz—15 kHz $^{+0.5}_{-2}$ dB (IHF)

Selectivity at 300 kHz: (at 40 kHz deviation, S/N = 26 dB) 55 dB

Capture Ratio: 1.0 dB

AM Suppression Ratio: 54 dB

Image Response Ratio: 45 dB

Spurious Response Ratio: 75 dB

Muting Threshold: Approx. 5 μV — Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SONY®

SERVICE MANUAL

485

STR-333L

SW/MW/LW SECTION

	SW	MW	LW
Frequency Range	5.8 MHz–15.8 MHz	522 kHz–1,602 kHz	150 kHz–350 kHz
Antenna	External antenna terminal	Built-in ferrite-rod antenna, External antenna terminal	
Intermediate Frequency	450 kHz		
Usable Sensitivity	30μV, external antenna (10 MHz)	250μV/m, built-in antenna (1,000 kHz) 100μV, external antenna (1,000 kHz)	500μV/m, built-in antenna (230 kHz) 100μV, external antenna (230 kHz)
S/N Ratio	52 dB (5 mV)	52 dB (50 mV/m)	52 dB (50 mV/m)
Harmonic Distortion	0.3% (5 mV, 400 Hz)	0.3% (50 mV/m, 400 Hz)	0.3% 50 mV/m, 400 Hz)
Selectivity	50 dB (9 kHz)	50 dB (9 kHz)	50 dB (9 kHz)

AUDIO AMPLIFIER SECTION

Continuous RMS Power Output: Less than 0.1% THD, both channels driven simultaneously
At 20 Hz–20 kHz
25 + 25W (8Ω)
25 + 25W (4Ω)
At 1 kHz
28 + 28W (8Ω)
28 + 28W (4Ω)
According to DIN 45500
25 + 25W (8Ω)
25 + 25W (4Ω)

Dynamic Power Output: 90W (8Ω)
(IHF constant power supply method) 90W (4Ω)

Power Bandwidth: 10 Hz–40 kHz, IHF

Damping Factor: 20 at 1 kHz, 8Ω

Harmonic Distortion: Less than 0.1% at rated output
Less than 0.1% at 1W output

Intermodulation Distortion: (60 Hz : 7 kHz = 4:1) Less than 0.1% at rated output
Less than 0.1% at 1W output

Residual Noise: Less than 0.08μW at 8Ω

Inputs:

	Sensitivity	Impedance	S/N	Weighting network
PHONO	2.5 mV (-50 dB)	50 kΩ	70 dB	A
TAPE	150 mV (-14.5 dB)	100 kΩ	90 dB	A

Measured with rated output power into 8Ω loads (both channels driven simultaneously) at 1 kHz.

Outputs: (with rated input)

REC OUT	Voltage 150 mV	Impedance 10 kΩ
HEADPHONES	Accepts all low or high impedance headphones.	
SPEAKER	4–16Ω speakers are suitable.	

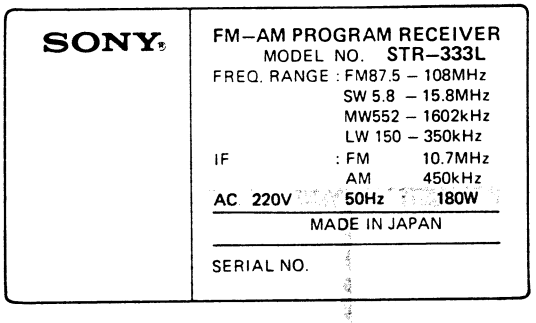
Frequency Response: PHONO
RIAA equalization curve ± 1 dB
TAPE
10 Hz–50 kHz $^{+1}_{-3}$ dB

Tone Controls: BASS ±8 dB at 100 Hz
TREBLE ±8 dB at 10 kHz

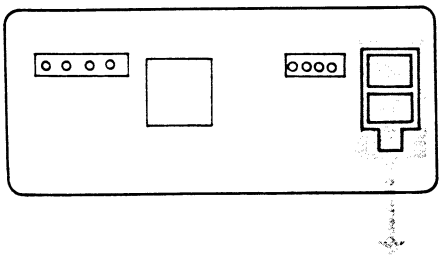
Loudness Control: (Att. 30 dB) +6 dB at 100 Hz
+3 dB at 10 kHz

MODEL IDENTIFICATION

– Specification Label or AC Outlet –



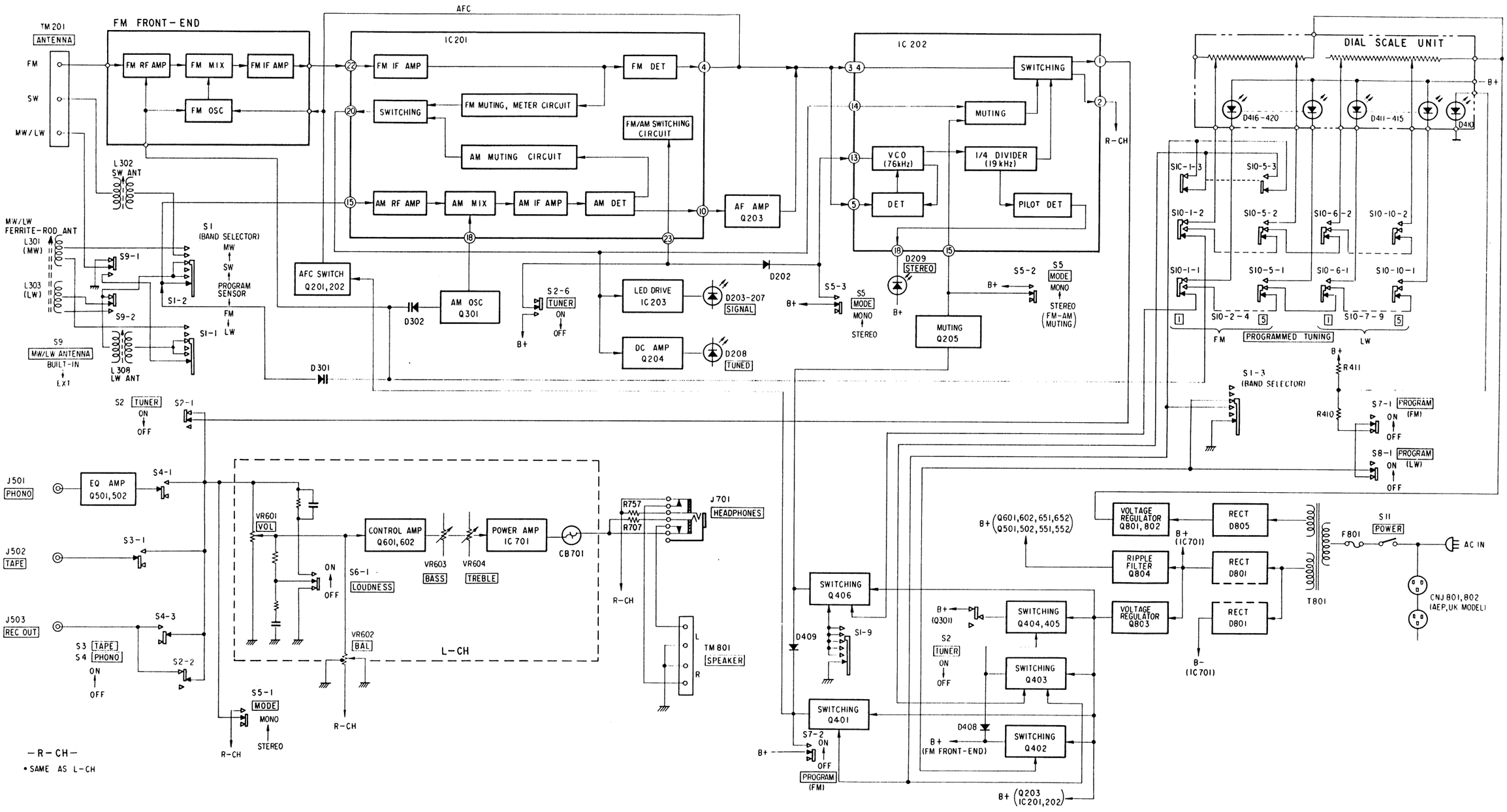
– rear panel –



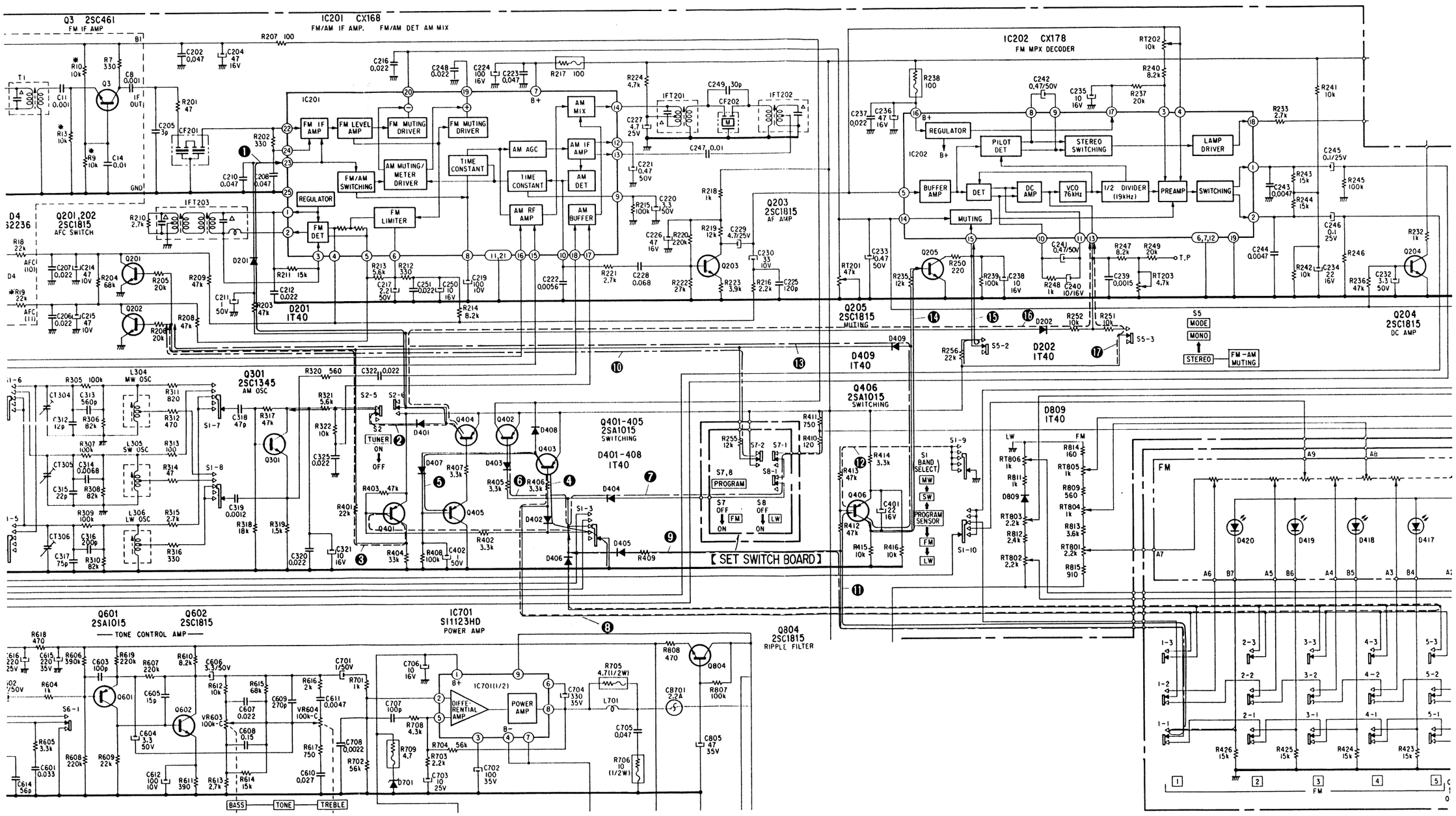
UK model: AC 240V ∿ 50Hz 240W
AEP, SCN model: AC 220V ∿ 50Hz 180W → AEP model: two AC outlet
SCN model: not provide

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM



1-2. CIRCUIT DESCRIPTION



❶. In SW, MW or LW reception, the CX168 (IC201) is switched to AM mode.

❷. In SW, MW or LW reception, B+ voltage is applied to Q301.

❸. Band Selector (S1): FM position
This line is grounded. Therefore, Q401, Q201 and Q202 turns on and AFC circuit does not operate.

❹. Band Selector: FM position
This line is grounded and Q403 turns on.

❺. Band Selector: PROGRAM SENSOR or FM position
In FM reception, Q405 turns off thereby turning Q403 on and Q404 turning off.
Band Selector: SW, MW or LW position
Q404 and Q405 turns on.

❻. Band Selector: PROGRAM SENSOR position
This line is grounded and Q402 turns on. Therefore, B+ voltage is applied to the FM front-end circuit even in LW reception, and the selection of LW or FM mode is done by appling B+ voltage to terminal (23) of IC201.

❼. Band Selector: PROGRAM SENSOR position
This line is grounded. Therefore, the dial pointer is not brighter than manual tuning. But when the PROGRAM switch (S7, S8) is depressed, the current flowing through D410 increases and the dial pointer brightens.

❽. Band Selector: PROGRAM SENSOR position
When one of the PROGRAMMED TUNING button (S10) is depressed, this line is grounded and Q403 turns on.

❾. Band Selector: PROGRAM SENSOR position
This line is grounded. Therefore, when one of the PROGRAMMED TUNING button (S10) is depressed, the station marker (D411 to D420) will light up.

❿. When the FM PROGRAM switch (S7) switches ON, B+ voltage is applied to this line, Q201 and Q202 turn on, and AFC circuit is released by Q201 and Q202.

⓫. Band Selector: PROGRAM SENSOR position
This line is grounded via D405 and S1-3, but the voltage is applied to the base of Q406 by R409, and Q406 turns off.
But, when switching S10 over, a voltage is momentarily not applied and Q406 turns on.

⓬. When the FUNCTION switch (S1) is changed, Q406 turns on momentarily by S1-9. Then AFC circuit is released and the signal is muted within IC202.

⓭. When the FUNCTION switch (S1) or PROGRAMMED TUNING switch (S10) is changed, the voltage is applied to this line. Therefore, AFC circuit is released.

⓮. When the FUNCTION switch (S1) or PROGRAMMED TUNING switch (S10) is changed, Q406 and Q205 turns on, therefore, the signal is muted within IC202.

⓯. When the MODE switch (S5) is changed to MONO, the voltage is applied to terminal (15) of IC202 and the signal is muted within IC202.

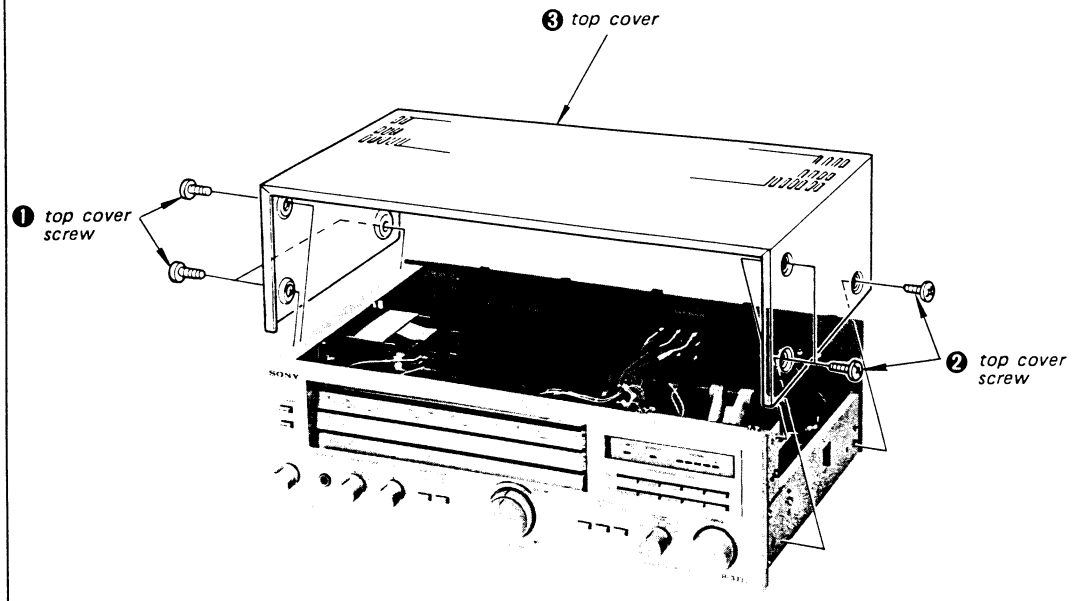
⓰. In SW, MW or LW reception, the voltage is applied to terminal (13) of IC202 and the VCO operation stops.

⓱. When the MODE switch (S5) is changed to MONO, the voltage is applied to terminal (15) of IC202 and the VCO operation stops.

SECTION 2
DISASSEMBLY

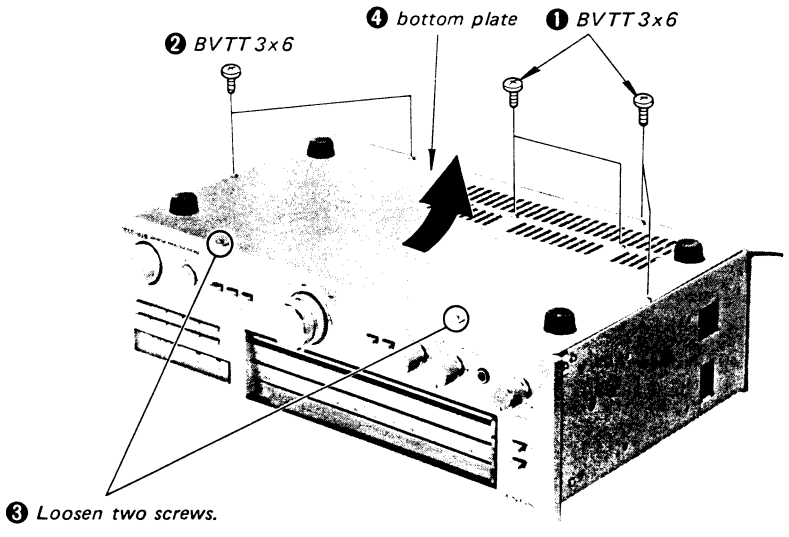
Note: Follow the disassembly procedure in the numerical order given.

TOP COVER REMOVAL

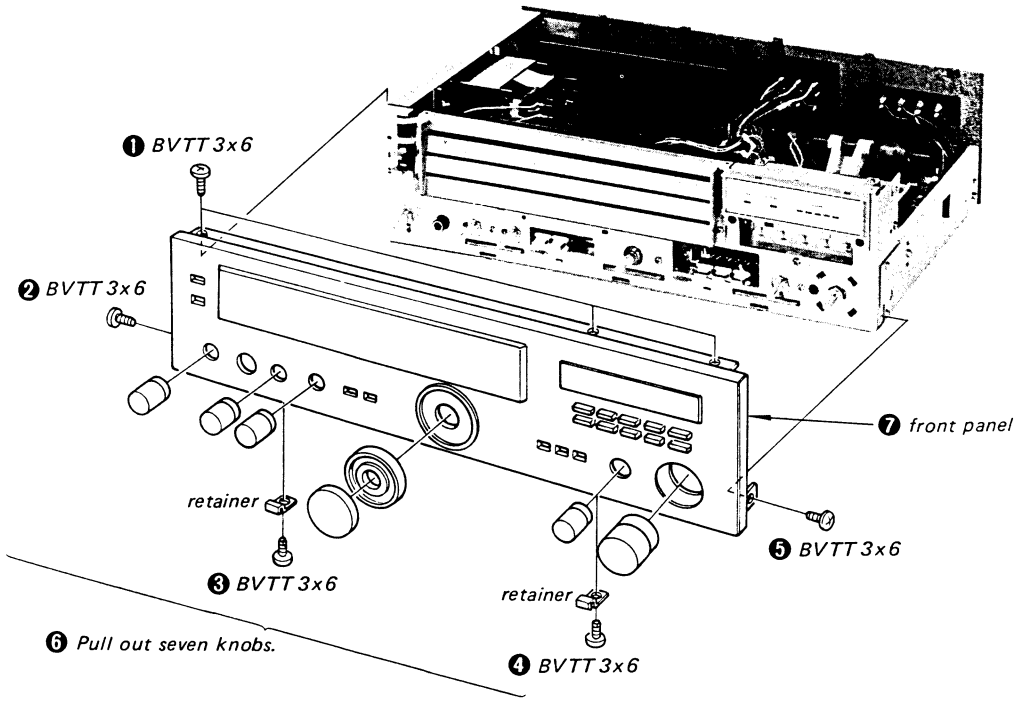


DIAL CORD STRINGING
See page 15.

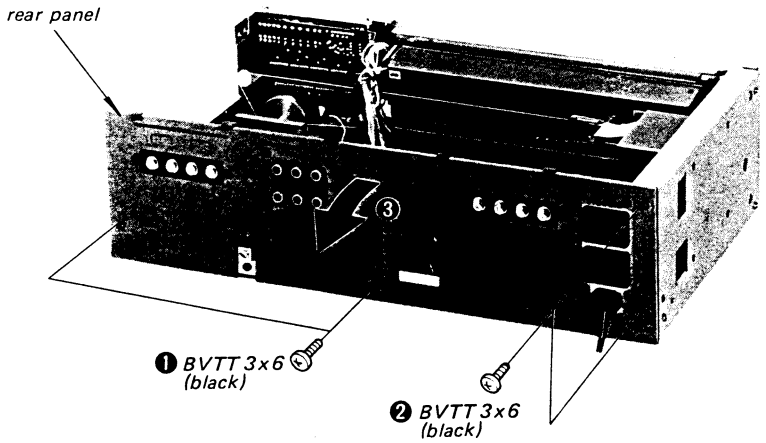
BOTTOM PLATE REMOVAL



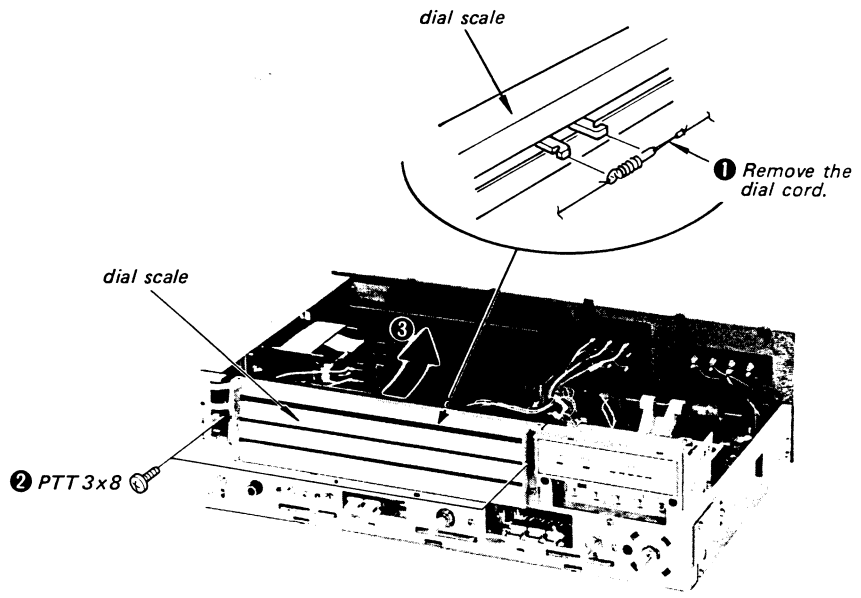
FRONT PANEL REMOVAL



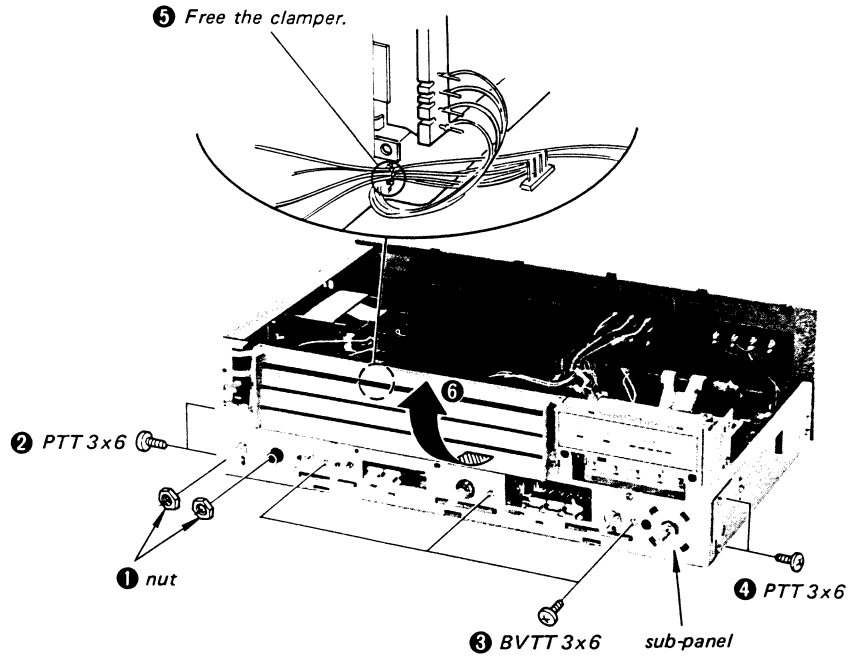
REAR PANEL REMOVAL



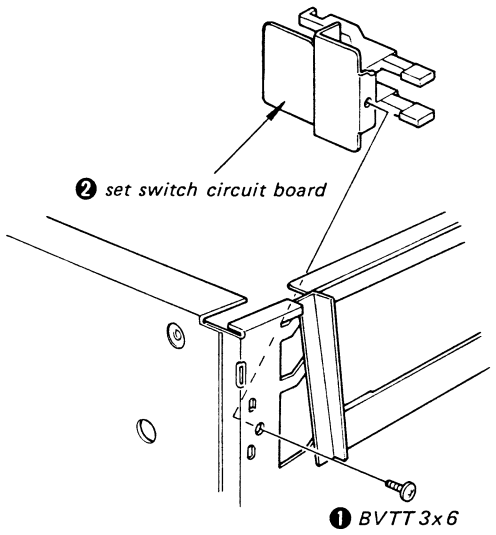
DIAL SCALE REMOVAL



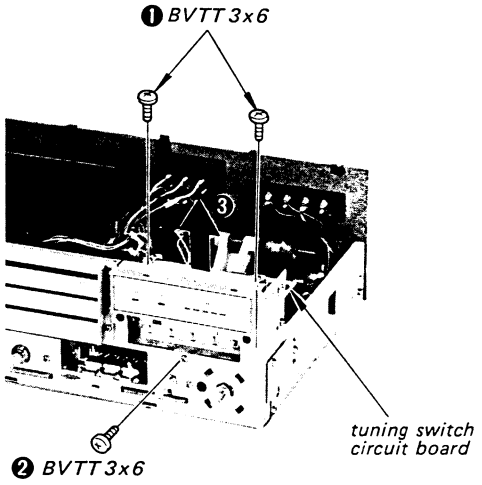
SUB-PANEL REMOVAL



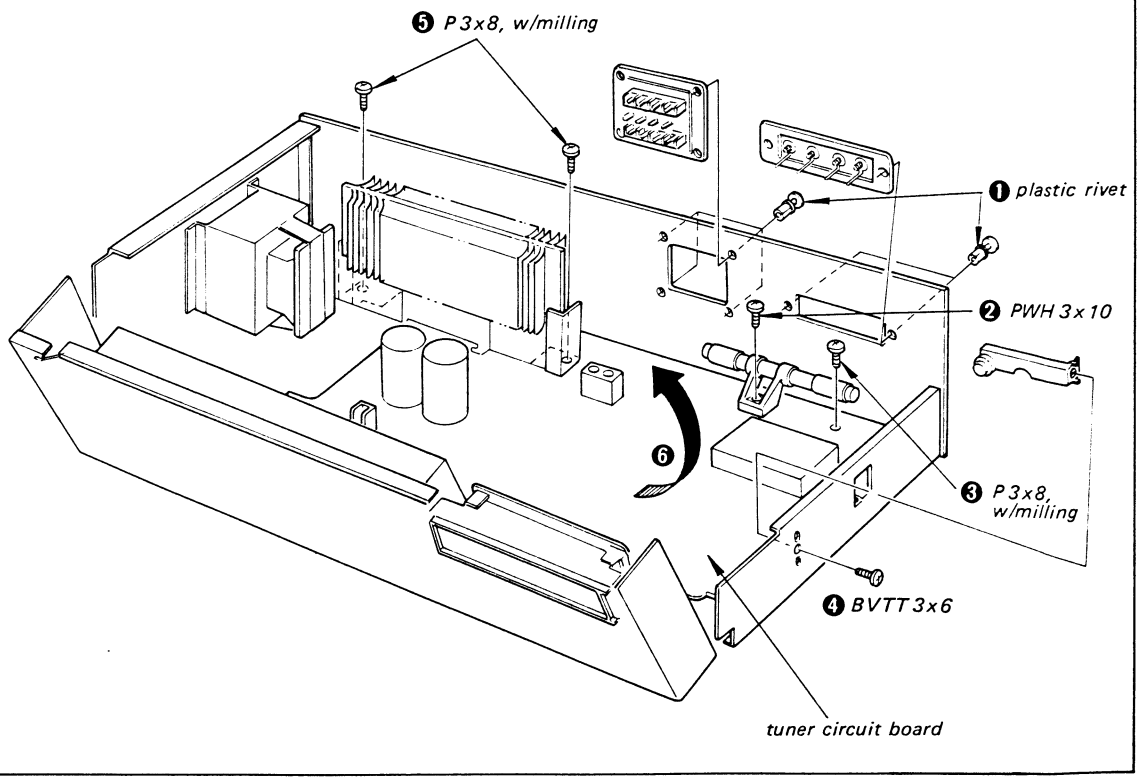
SET SWITCH CIRCUIT BOARD REMOVAL



TUNING SWITCH CIRCUIT BOARD REMOVAL



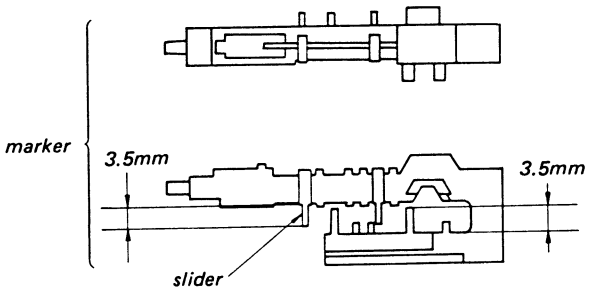
TUNER CIRCUIT BOARD REMOVAL

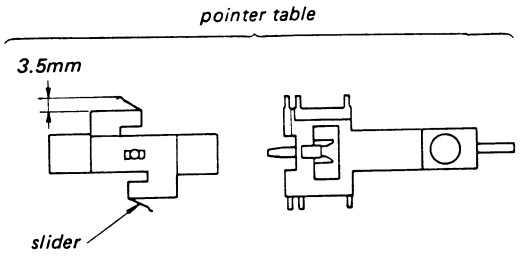


DIAL SCALE UNIT

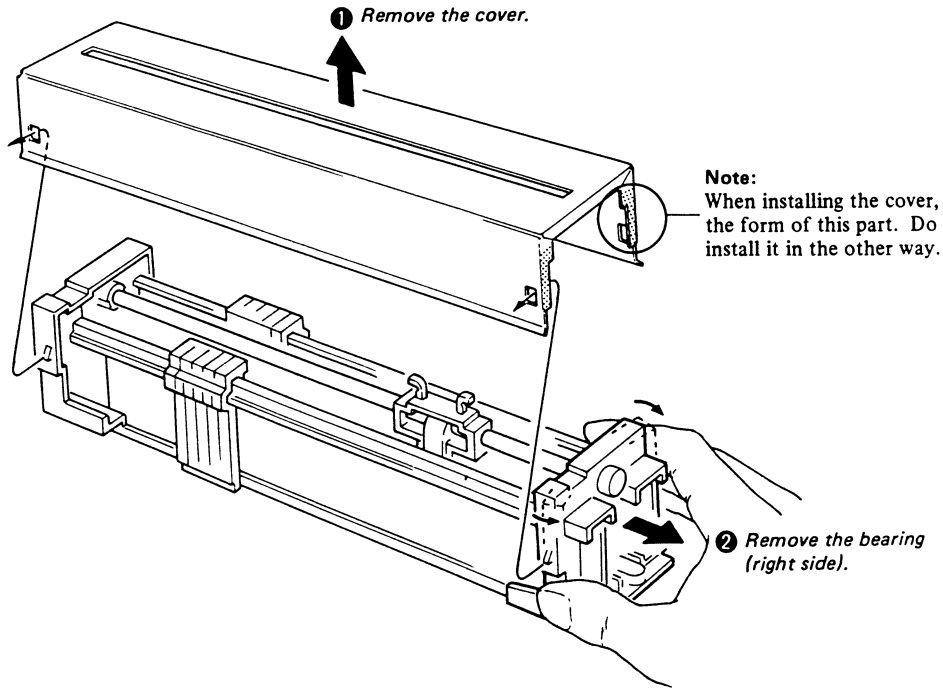
This unit is tuned by moving the sliders of the dial scale unit along the carbon-coated lines of the resistor plates. The sliders should be moved very precisely. So, carefully perform the disassembly and the installation of the dial scale unit as follows. Only the marker and the pointer table are replaceable.

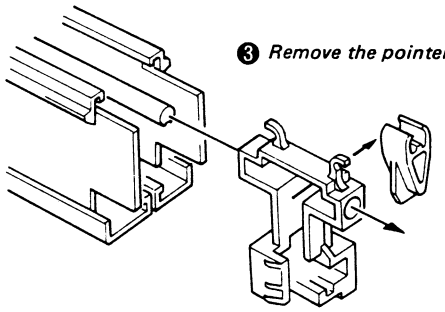
Take care not to damage the sliders shown below.

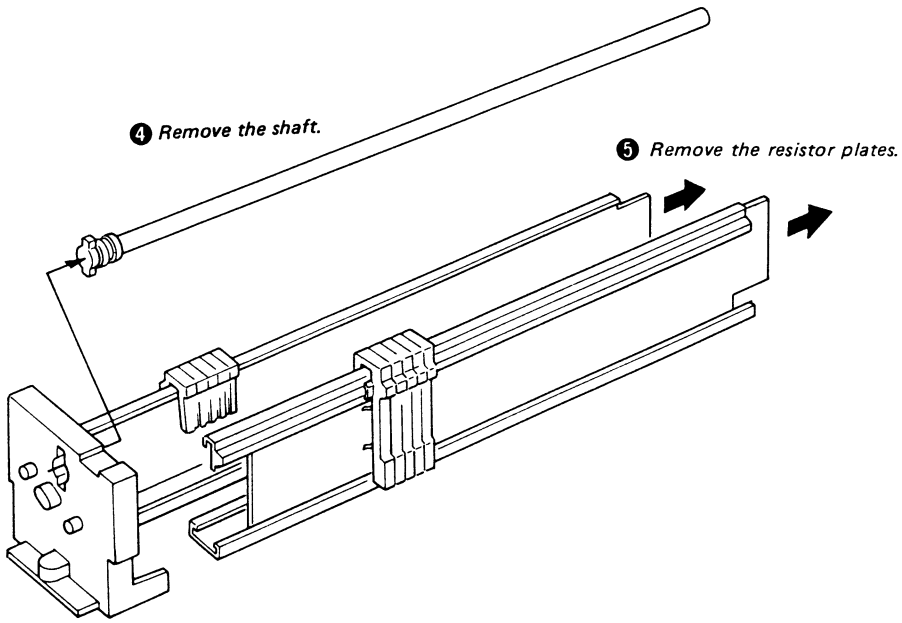




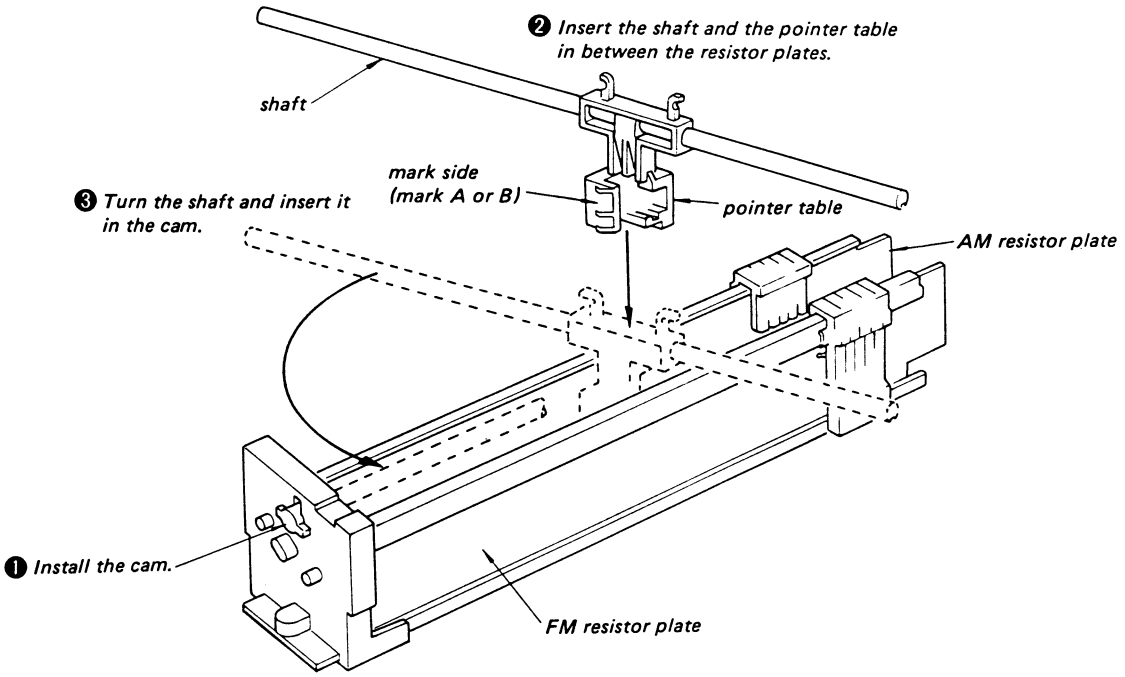
• Dial Scale Unit Disassembly


❶ Remove the cover.
Note:
When installing the cover, confirm the form of this part. Do not install it in the other way.
❷ Remove the bearing (right side).

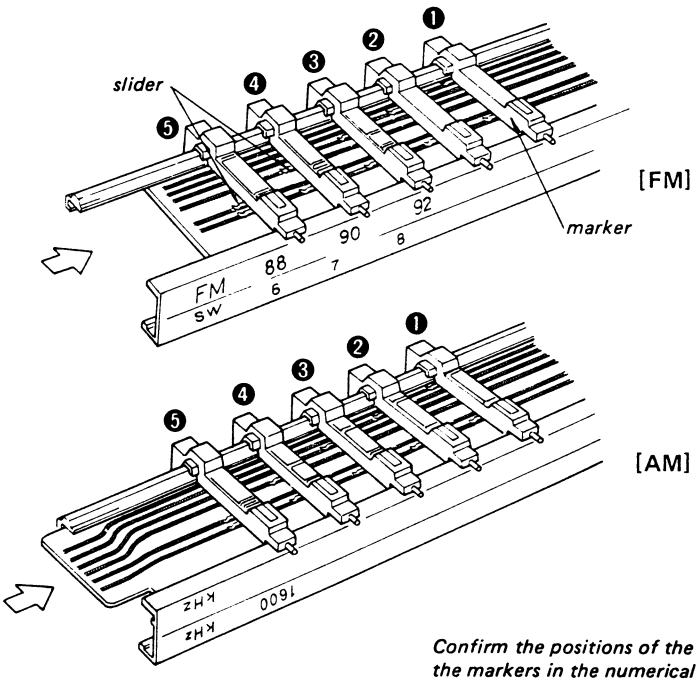




- **Dial Scale Unit Installation**

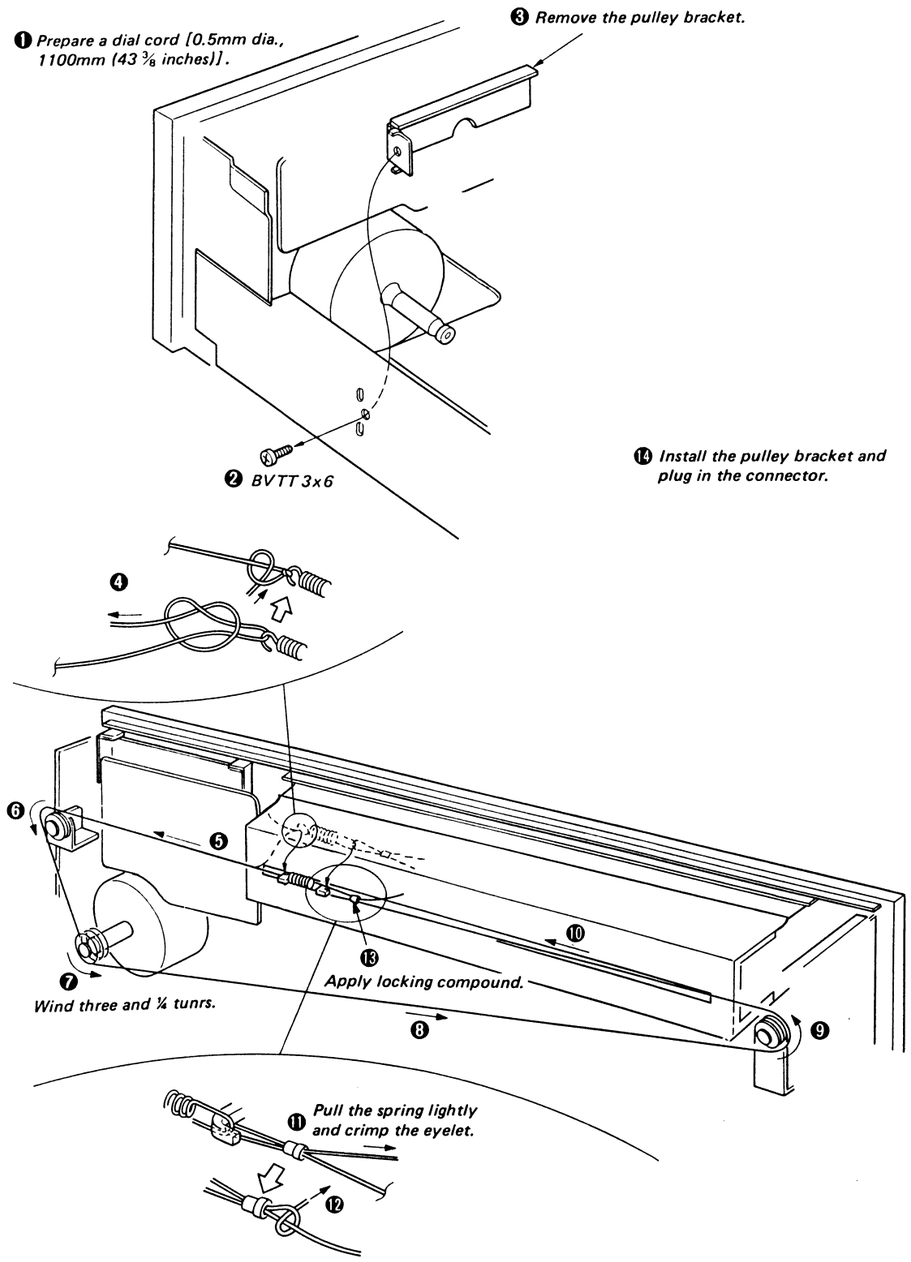

❷ Insert the shaft and the pointer table in between the resistor plates.
shaft
mark side (mark A or B)
❸ Turn the shaft and insert it in the cam.
pointer table
AM resistor plate
❶ Install the cam.
FM resistor plate

Note:
The installation is performed in this way not to damage the sliders of the pointer table.



Confirm the positions of the sliders and install the markers in the numerical order given.
If one of the markers is damaged, replace the five markers together to obtain the same brightness of them.

DIAL CORD STRINGING

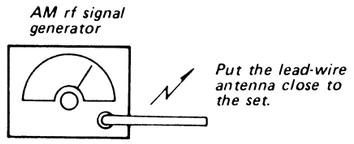


SECTION 3
ADJUSTMENTS

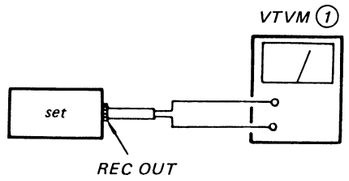
MW SECTION

Setting:

FUNCTION Switch: TUNER
Band Selector: MW



Modulation: 400 Hz, 30%



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

MW FREQUENCY COVERAGE ADJUSTMENT

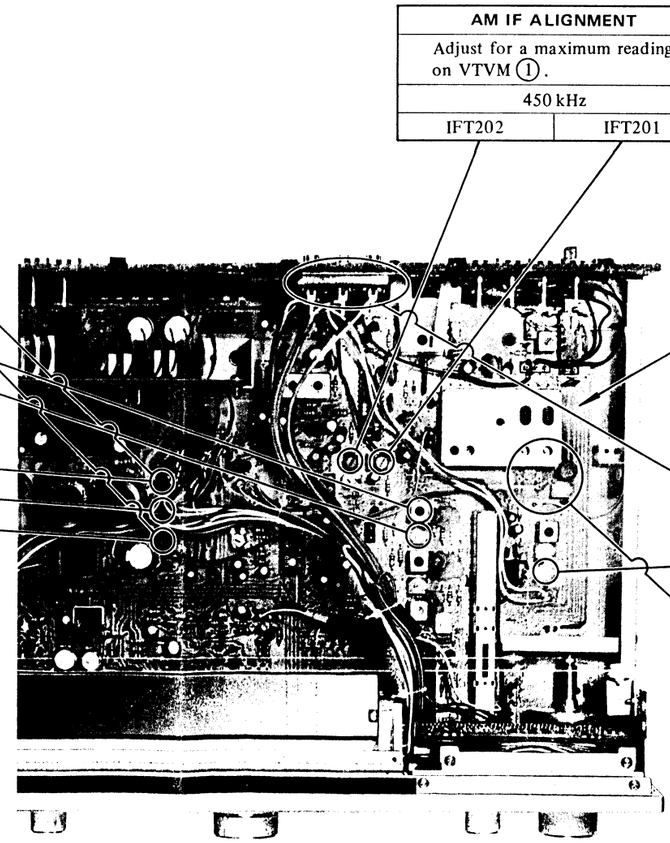
	Dial Indication	VTVM (1) Reading	Adjustment Part
Tuning Control Voltage Adjustment	maximum frequency	25 V	RT806
	minimum frequency	2 V	RT802
	Adjust for a specified reading on VTVM (2).		

	Dial Indication	AM Rf Signal Generator Frequency	Adjustment Part
Local Oscillator Frequency Adjustment	minimum frequency	515 kHz	L304
	maximum frequency	1,660 kHz	CT304
	Adjust for a maximum reading on VTVM (1).		

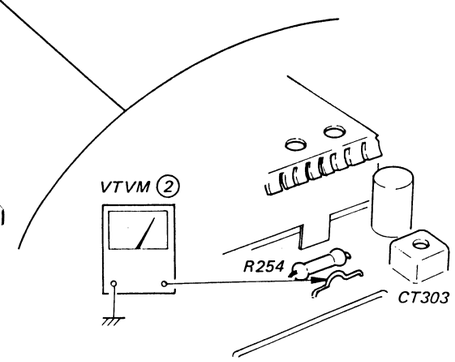
	Dial Indication	AM Rf Signal Generator Frequency	Adjustment Part
Dial Pointer Setting	600 kHz	600 kHz	RT806
	1,000 kHz	1,000 kHz	RT803
	1,400 kHz	1,400 kHz	RT802
	Adjust for a maximum reading on VTVM (1).		

Note: Be sure to perform the LW and the SW frequency coverage adjustments after the tuning control voltage adjustment.

AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM (1).	
450 kHz	
IFT202	IFT201

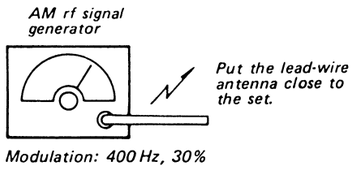


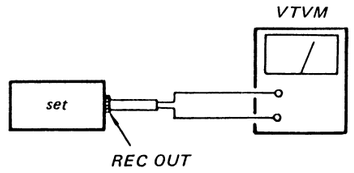
MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM (1).	
L301	600 kHz
CT301	1,400 kHz



LW SECTION

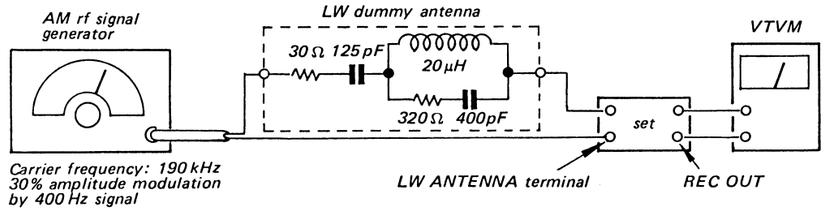
Setting: FUNCTION Switch: TUNER
Band Selector: LW
MW/LW ANTENNA Selector: BUILT-IN



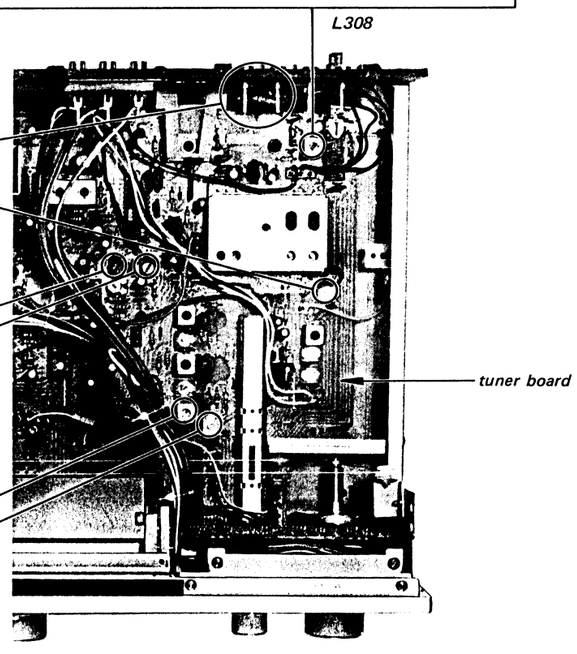


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

LW EXT ANTENNA COIL ADJUSTMENT



1. Set the MW/LW ANTENNA switch to EXT position.
2. Tune the set to 230 kHz and adjust L308 for a maximum reading on VTVM.



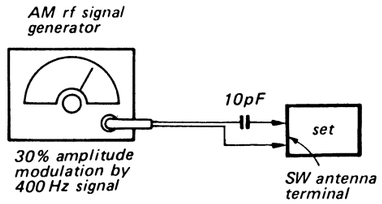
LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
190 kHz	L303
310 kHz	CT303

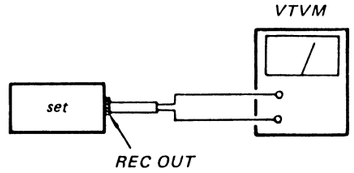
AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
450 kHz	IFT202
	IFT201

LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
145 kHz	L306
365 kHz	CT306

SW SECTION

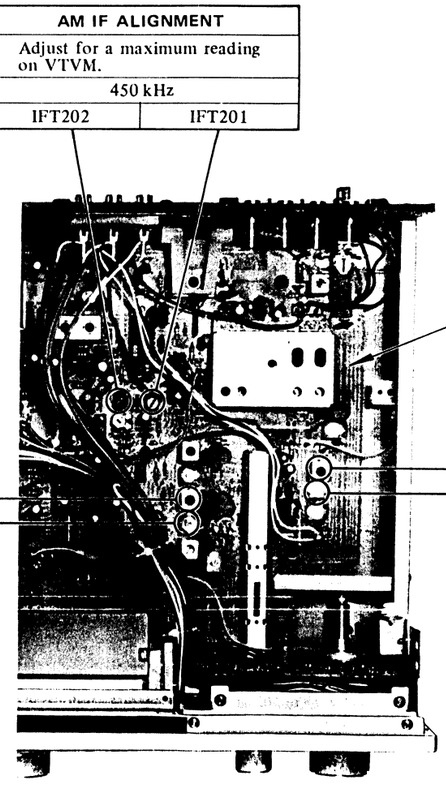
Setting:
FUNCTION Switch: TUNER
Band Selector: SW





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
450 kHz	
IFT202	IFT201



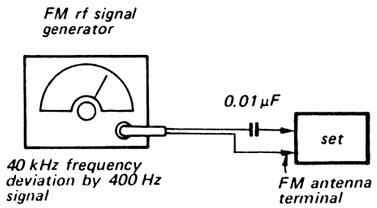
SW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
5.5 MHz	L305
16.1 MHz	CT305

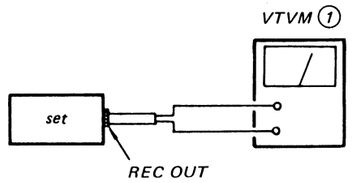
SW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L302	6 MHz
CT302	15 MHz

FM SECTION

Setting:

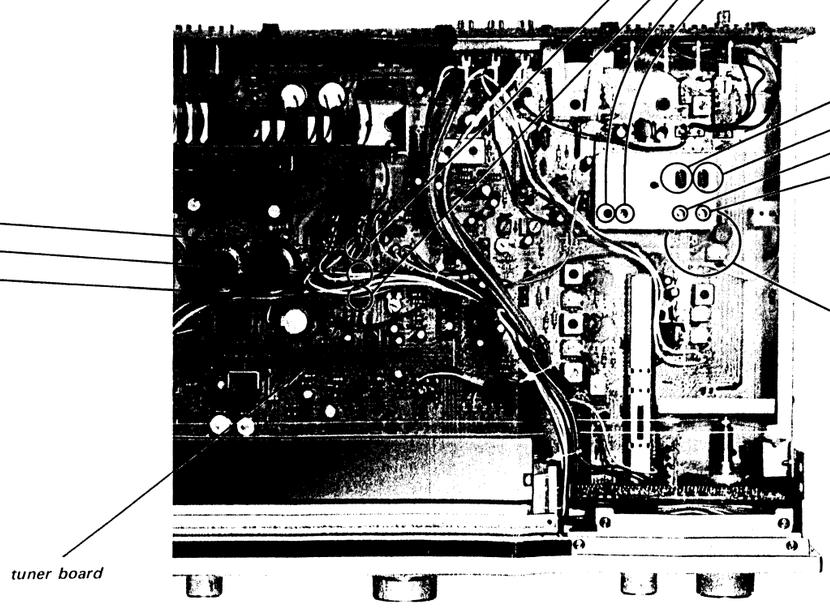
FUNCTION Switch:	TUNER
Band Selector:	FM
MODE Switch:	MONO





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FREQUENCY COVERAGE ADJUSTMENT 2		
Dial Indication	FM Rf Signal Generator Frequency	Adjustment Part
88 MHz	88 MHz	RT805
98 MHz	98 MHz	RT804
108 MHz	108 MHz	RT801
Adjust for a maximum reading on VTVM ①.		



FM FRONT-END BLOCK

Adjustment is not necessary. But if it has been meddled with in some way, and if the adjustment is necessary by all means, adjust the FM front-end block as follows.

FM FREQUENCY COVERAGE ADJUSTMENT 1

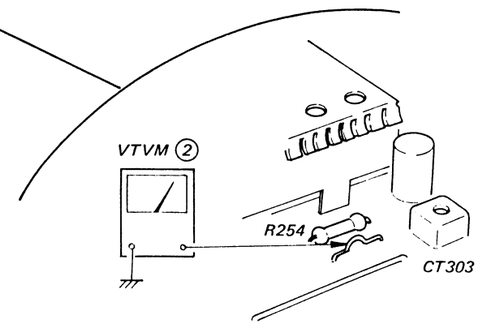
1) Be sure to perform this adjustment before the FM frequency coverage adjustment 2.

TUNING CONTROL VOLTAGE ADJUSTMENT		
Adjustment Part	Dial Indication	VTVM ② Reading
RT805	minimum frequency	2.73 V
RT801	maximum frequency	22.08 V
Adjust for a specified reading on VTVM ②.		

LOCAL OSCILLATOR FREQUENCY ADJUSTMENT		
Adjustment Part	Dial Indication	FM Rf Signal Generator Frequency
T2	minimum frequency	88 MHz
CT3	maximum frequency	108 MHz
Adjust for a maximum reading on VTVM ①.		

2) Be sure to perform this adjustment after the FM frequency coverage adjustment 2.

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM ②.	
L4	88 MHz
L2	
CT2	108 MHz
CT1	



FM DISCRIMINATOR ALIGNMENT 1

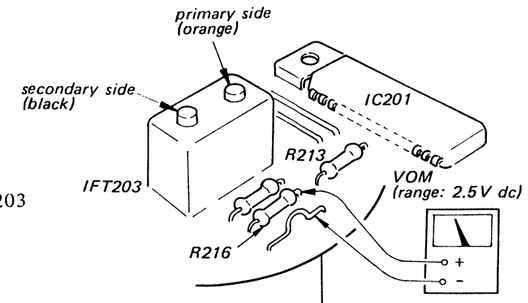
Setting:

FUNCTION Switch:	TUNER
Band Selector:	FM
MODE Switch:	MONO
TUNING:	Detuned position

Procedure:

Adjust the orange core (primary-side) of IFT203 for 0V reading on VOM.

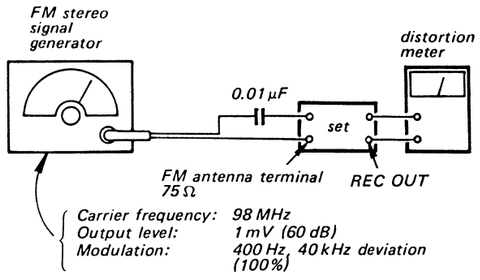
Note: When replacing the ceramic filter (CF201), perform this alignment.



FM DISCRIMINATOR ALIGNMENT 2

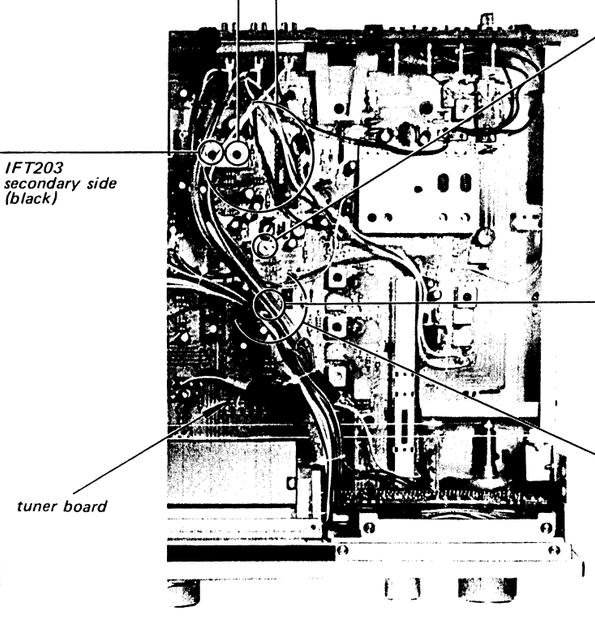
Setting:

FUNCTION Switch:	TUNER
Band Selector:	FM
MODE Switch:	MONO

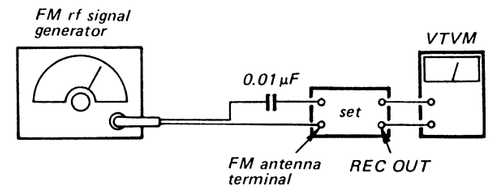


Procedure:

Adjust the black core (secondary side) of IFT203 for minimum distortion.



MUTING LEVEL ADJUSTMENT



Setting:

FUNCTION Switch:	TUNER
MODE Switch:	STEREO/FM-AM MUTE

Procedure:

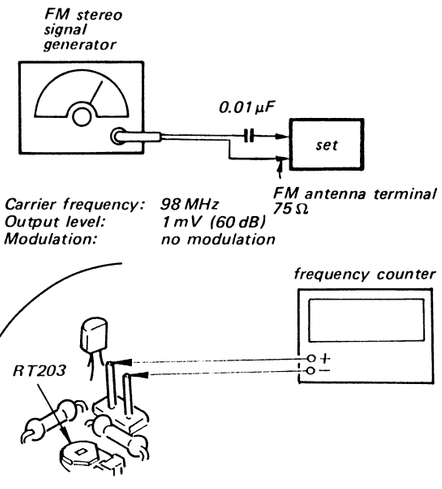
Turn RT201 and stop it just when the VTVM indication suddenly decreases.

VCO ADJUSTMENT

Setting:

FUNCTION Switch:	TUNER
Band Selector:	FM
MODE Switch:	STEREO/FM-AM MUTE

A) Regular Method



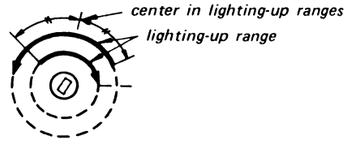
Procedure:

Adjust RT203 for 76kHz ± 100Hz on the frequency counter.

B) Simple Method

Procedure:

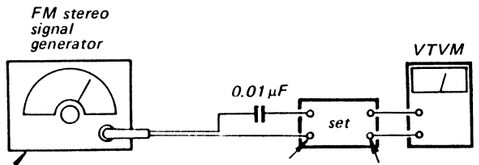
1. Tune the set to the FM stereo broadcasting signal.
2. Turn RT203 clockwise or counterclockwise and memorize the lighting-up range of STEREO lamp.
3. Secure RT203 at the center in lighting-up range of both turns as shown below.



FM STEREO SEPARATION ADJUSTMENT

Setting:

FUNCTION Switch: TUNER
Band Selector: FM
MODE Switch: STEREO/FM-AM MUTE



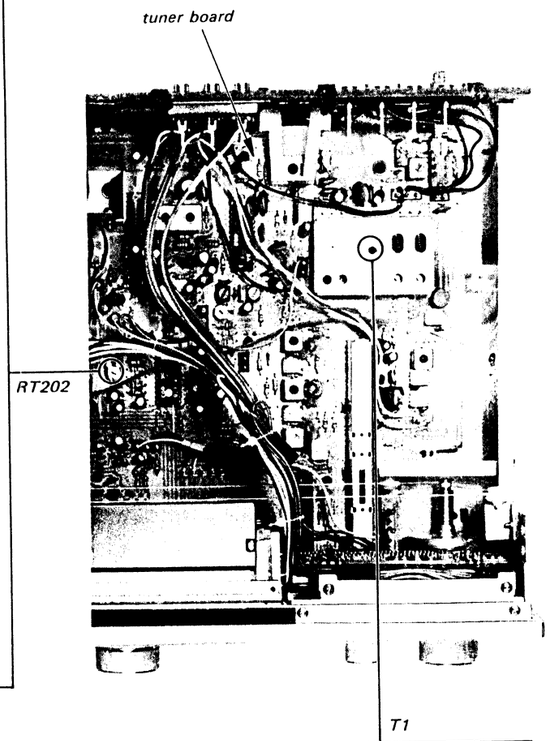
Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation:
Audio (400 Hz): 20 kHz deviation (50%)
Pilot (19 kHz): 6.3 kHz deviation (16%)
Sub channel (38 kHz): 20 kHz deviation (50%)

Procedure:

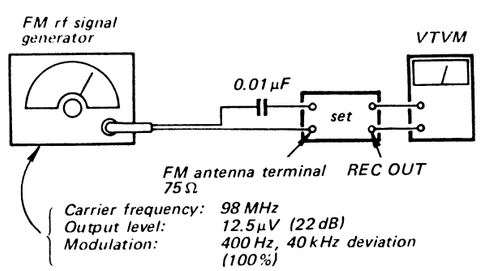
FM stereo signal generator output channel	VTVM connection	VTVM reading
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RT202 resistor for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RT202 resistor for minimum reading.

L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ

The difference between separations Ⓐ → Ⓑ and Ⓒ → Ⓓ are to be equal.



FM IF ALIGNMENT



Carrier frequency: 98 MHz
Output level: 12.5 µV (22 dB)
Modulation: 400 Hz, 40 kHz deviation (100%)

Setting:

FUNCTION Switch: TUNER
Band Selector: FM
MODE Switch: MONO

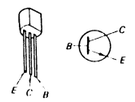
Procedure:

Adjust T1 for maximum reading on the VTVM.

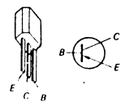
Replacement Semiconductors

For replacement, use semiconductors except in ( ).

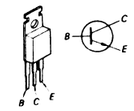
Q201–205, Q501, 502, Q551, 552, Q602, 652, Q802, 804 : 2SC1364 (2SC1815)
Q301: 2SC1345



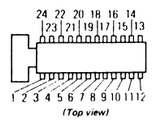
Q401–406, Q601, 651, Q801: 2SA1015



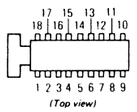
Q803: 2SC1173



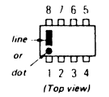
IC201: CX168



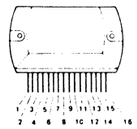
IC202: CX178



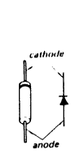
IC203: TL489CP



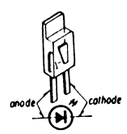
IC701: SI1125HD



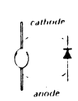
D201, 202, D401–409, D809, 810 : 1S1555 (1T40)



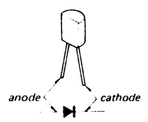
D203–207: GL9NG31
D208: GL9NG21
D209: GL9PR21



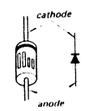
D805: V09C (V06C)



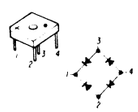
D301, 302: ISV118



D701: EQB01-07 (EQA01-07R)
D806: EQB01-05 (EQA01-05R)
D807: EQB01-15 (EQA01-15R)



D801: S2VB20



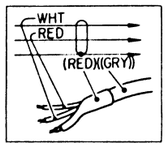
SECTION 4
DIAGRAMS

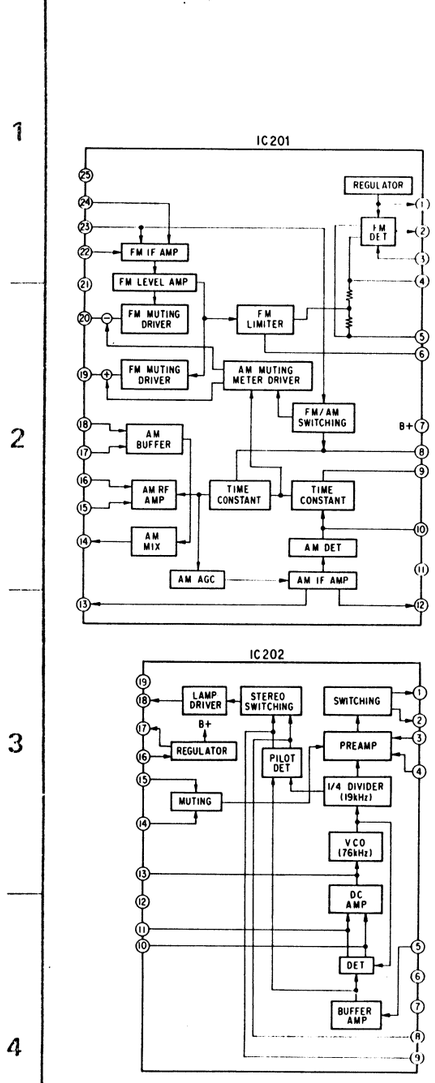
4-1. MOUNTING DIAGRAM

– Conductor Side –

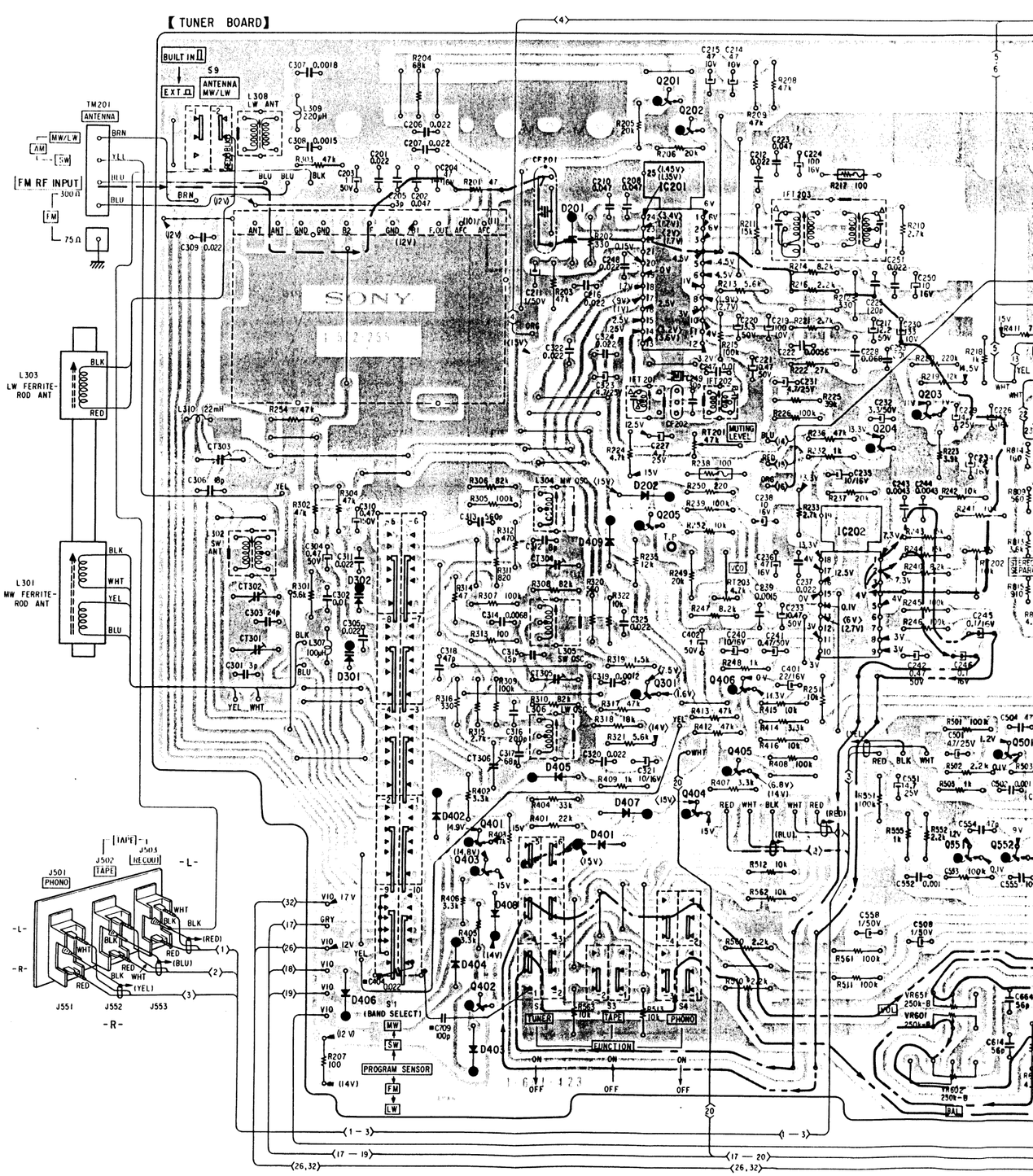
Note:

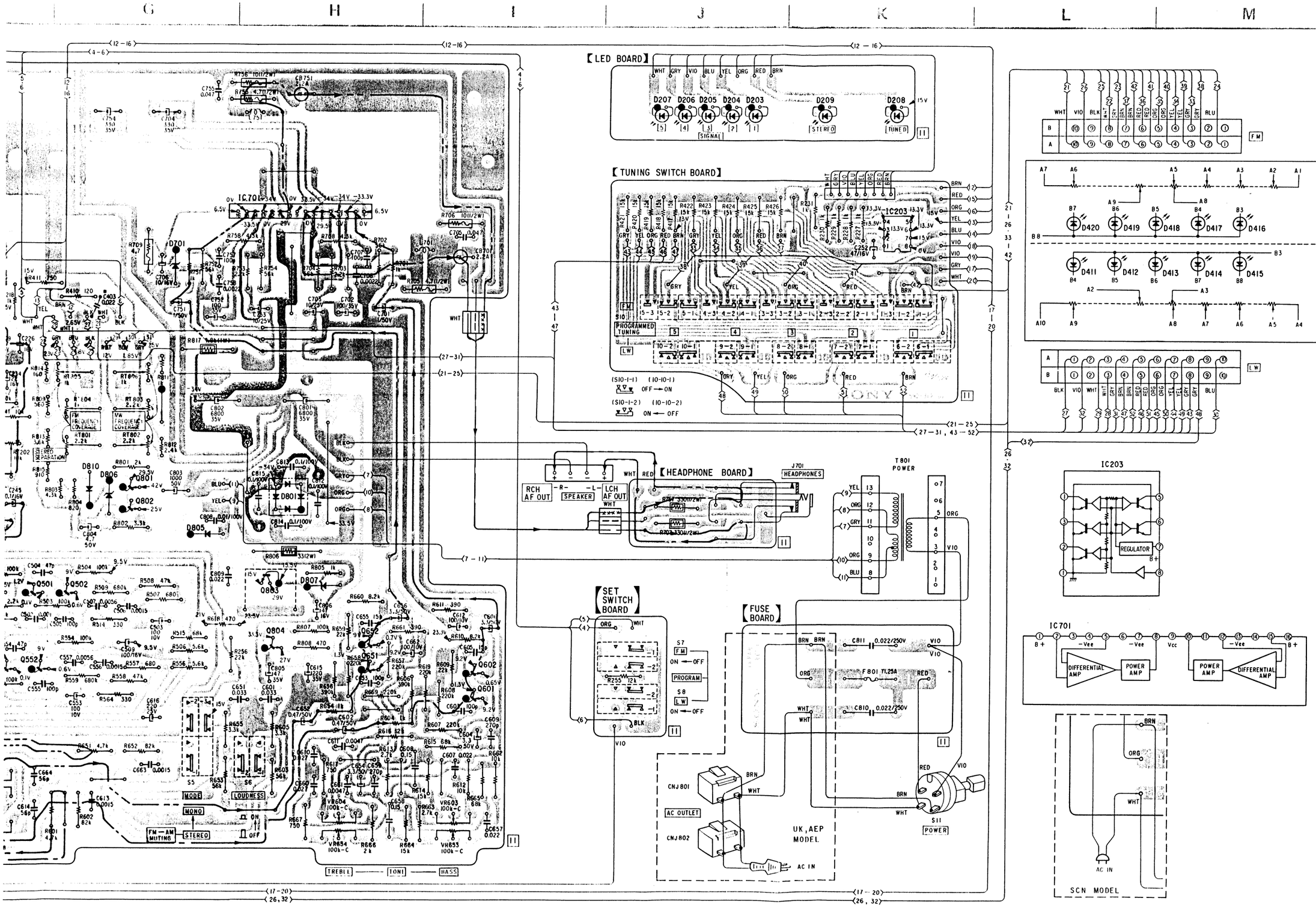
- ○—: parts extracted from the component side.
- ●—: parts extracted from the conductor side.
- [ ]←: indicates side identified with part number.
- : B+ pattern
- : B– pattern
- —→—: signal path
- —·→—: L-CH signal path
- —··→—: R-CH signal path
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (20 kΩ/V).
  no mark and ( ): FM, ⟨ ⟩: AM
- Voltage variations may be noted due to normal production tolerances.
- Color code of sleeving over the end of the jacket.



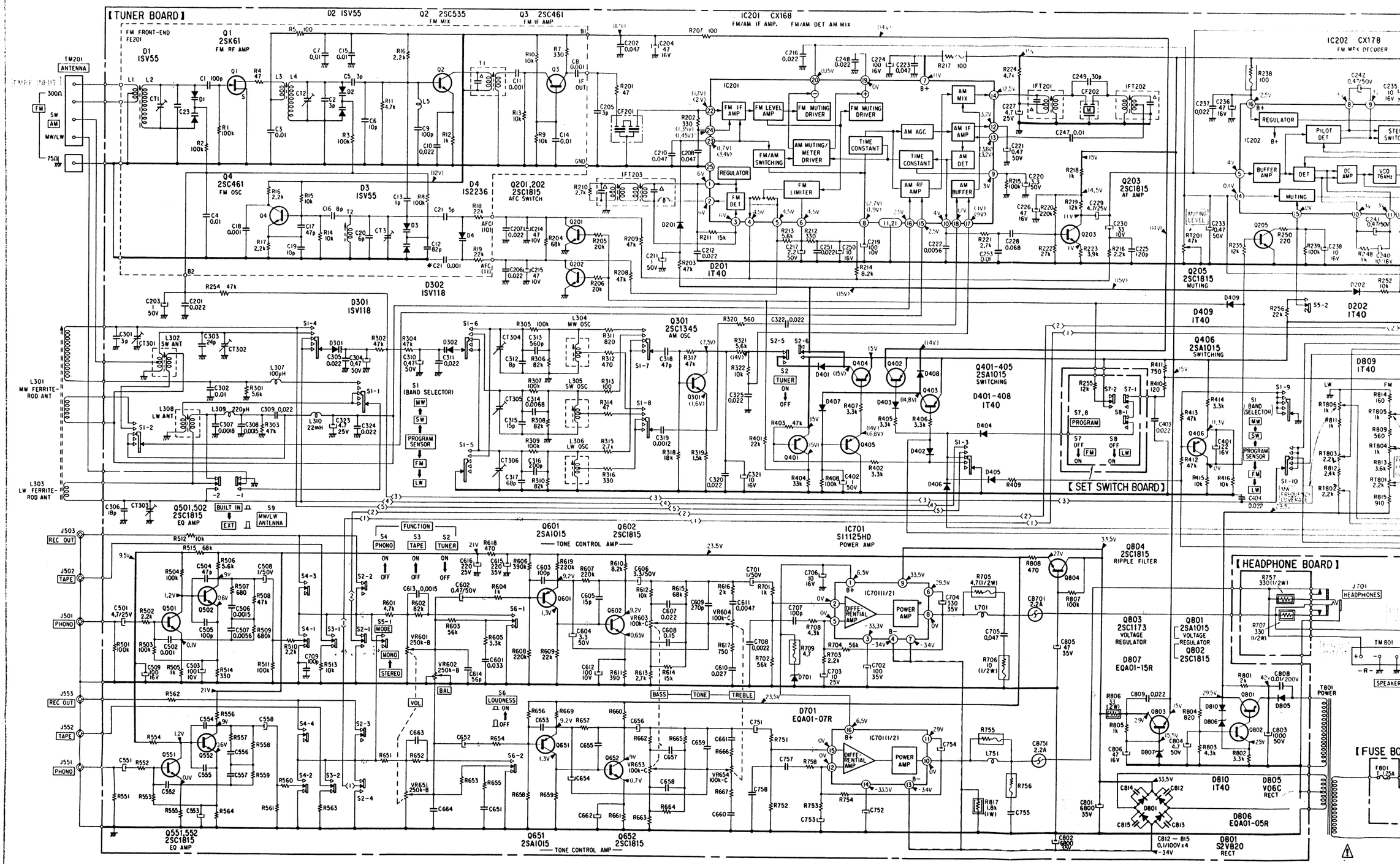


Q , IC	D
	203–209
201	
202	
IC701	201
IC203	
IC201	
	701
203	
204	
	202
205	
	409
IC202	302
801	810
802	806,801
	301
	805
406	
301	
803	
	807
501,502	
405	405
404	407
804,652	402
401	401
551,552	
651,602	
403 601	
	408
	404
	406
402	
	403




【LED BOARD】
WHT GRY VIO BLU YEL ORG RED BRN
D207 D206 D205 D204 D203 D209 D208
[5] [4] [3] [2] [1] [SIGNAL] [STEREO] [TUNED]
【TUNING SWITCH BOARD】
IC203
PROGRAMMED TUNING
(SIO-1-1) (IO-10-1) OFF → ON
(SIO-1-2) (IO-10-2) ON → OFF
【HEADPHONE BOARD】
J701 HEADPHONES
RCH AF OUT
SPEAKER
LCH AF OUT
T801 POWER
【SET SWITCH BOARD】
S7 FM ON → OFF
PROGRAM
S8 LW ON → OFF
【FUSE BOARD】
F801 T1.25A
CNJ801
CNJ802
AC OUTLET
AC IN
UK, AEP MODEL
S11 POWER
SCN MODEL
IC701
B+ -Vee -Vee Vcc -Vee B+
DIFFERENTIAL AMP
POWER AMP
POWER AMP
DIFFERENTIAL AMP
REGULATOR
FM
LW
MODE
MONO
STEREO
FM-AM MUTING
LOUDNESS
TREBLE
TONE
BASS

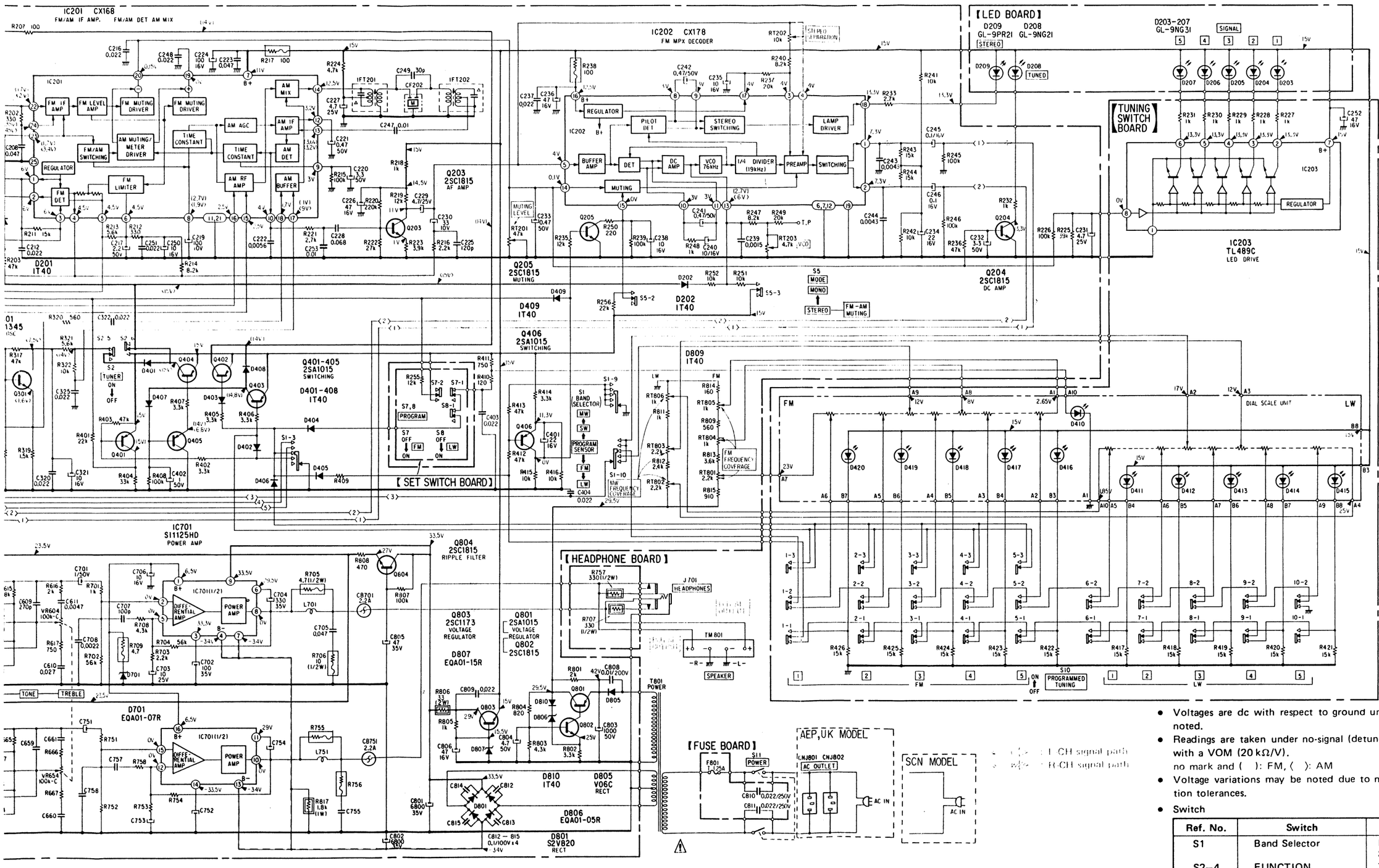
4-2. SCHEMATIC DIAGRAM



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless oth
  50WV or less are not indicated e
  and tantalum.
- All resistors are in ohms, ¼ W unles
  kΩ: 1000Ω; MΩ: 1000 kΩ



- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (20 kΩ/V).
  no mark and ( ): FM, ( ): AM
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	Band Selector	PROGRAM SENSOR
S2–4	FUNCTION	TUNER
S5	MODE	STEREO
S6	LOUDNESS	OFF
S7	PROGRAM FM	OFF
S8	PROGRAM LW	OFF
S9	MW/LW ANTENNA	BUILT-IN
S10	PROGRAMMED TUNING	OFF
S11	POWER	OFF

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

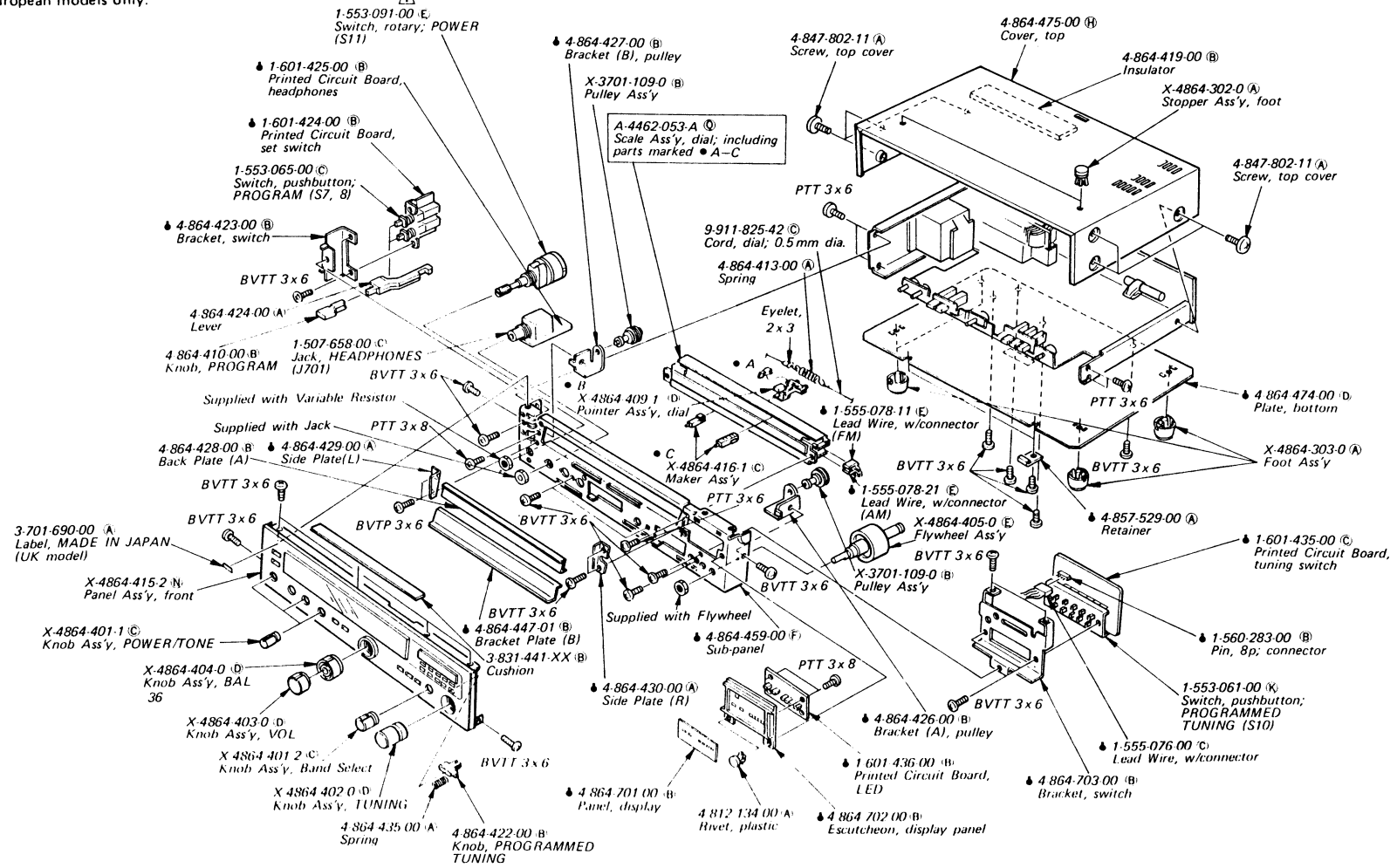
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalum.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ: 1000Ω; MΩ: 1000 kΩ

- : fusible resistor.
- △: internal component.
- : panel designation.
- : adjustment for repair.
- : B+ bus.
- : B- bus.

Note:

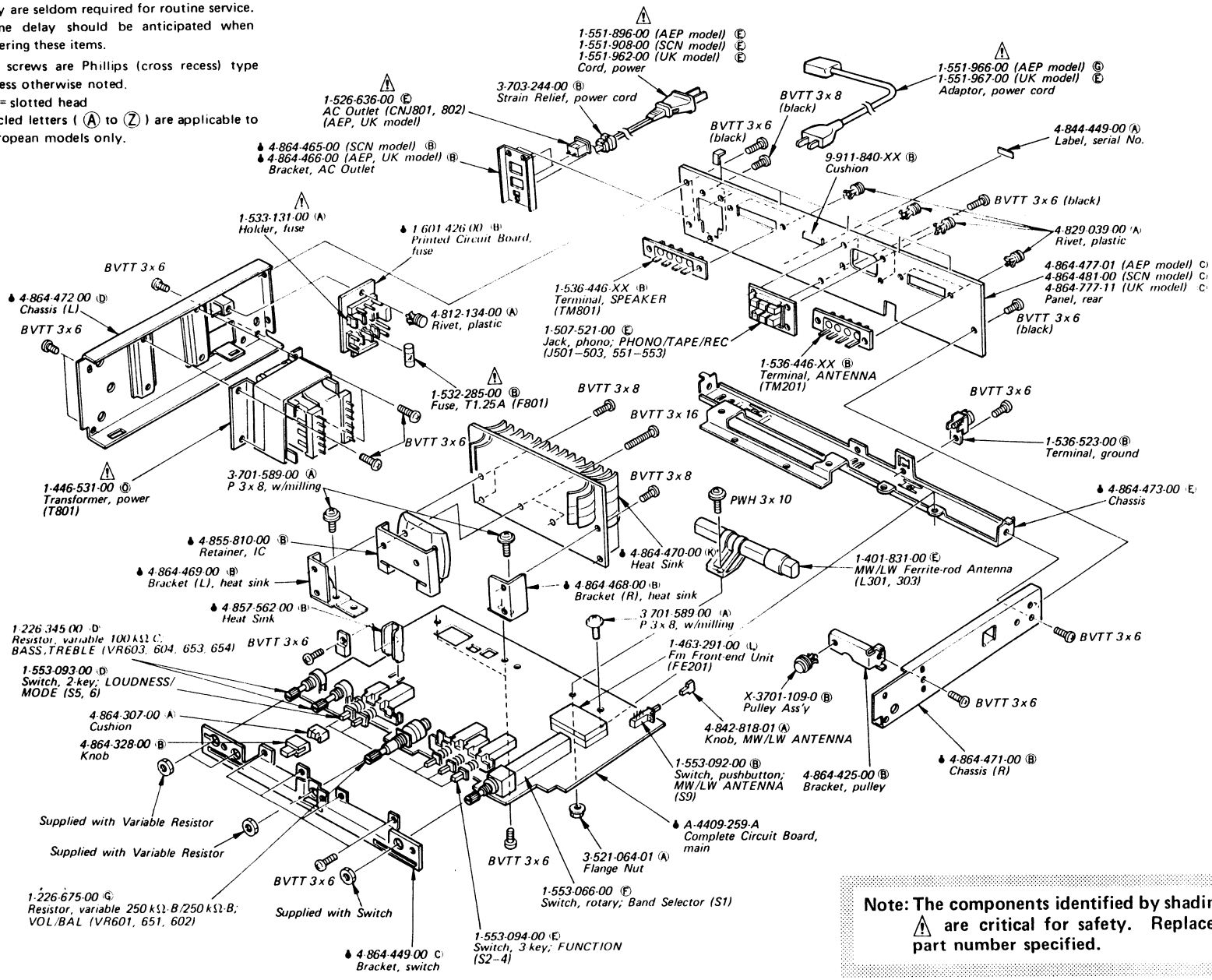
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (-) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.


⚠ 1-553-091-00 (E) Switch, rotary; POWER (S11)
♦ 1-601-425-00 (B) Printed Circuit Board, headphones
♦ 1-601-424-00 (B) Printed Circuit Board, set switch
1-553-065-00 (C) Switch, pushbutton; PROGRAM (S7, 8)
♦ 4-864-423-00 (B) Bracket, switch
BVTT 3x6
4-864-424-00 (A) Lever
4-864-410-00 (B) Knob, PROGRAM
1-507-658-00 (C) Jack, HEADPHONES (J701)
♦ 4-864-427-00 (B) Bracket (B), pulley
X-3701-109-0 (B) Pulley Ass'y
A-4462-053-A (Q) Scale Ass'y, dial; including parts marked • A–C
4-847-802-11 (A) Screw, top cover
4-864-475-00 (H) Cover, top
4-864-419-00 (B) Insulator
X-4864-302-0 (A) Stopper Ass'y, foot
4-847-802-11 (A) Screw, top cover
PTT 3x6
9-911-825-42 (C) Cord, dial; 0.5 mm dia.
4-864-413-00 (A) Spring
Eyelet, 2x3
• A
• B
X-4864-409-1 (D) Pointer Ass'y, dial
• C
X-4864-416-1 (C) Maker Ass'y
♦ 1-555-078-11 (E) Lead Wire, w/connector (FM)
♦ 4-864-474-00 (D) Plate, bottom
X-4864-303-0 (A) Foot Ass'y
BVTT 3x6
PTT 3x6
Supplied with Variable Resistor
Supplied with Jack
PTT 3x8
4-864-428-00 (B) Back Plate (A)
4-864-429-00 (A) Side Plate(L)
BVTP 3x6
♦ 1-555-078-21 (E) Lead Wire, w/connector (AM)
X-4864-405-0 (E) Flywheel Ass'y
4-857-529-00 (A) Retainer
3-701-690-00 (A) Label, MADE IN JAPAN (UK model)
X-4864-415-2 (N) Panel Ass'y, front
X-4864-401-1 (C) Knob Ass'y, POWER/TONE
X-4864-404-0 (D) Knob Ass'y, BAL
36
X-4864-403-0 (D) Knob Ass'y, VOL
X 4864 401 2 (C) Knob Ass'y, Band Select
X 4864 402 0 (D) Knob Ass'y, TUNING
4 864 435 00 (A) Spring
4-864-422-00 (B) Knob, PROGRAMMED TUNING
♦ 4-864-447-01 (B) Bracket Plate (B)
3-831-441-XX (B) Cushion
Supplied with Flywheel
♦ 4-864-459-00 (F) Sub-panel
♦ 4-864-430-00 (A) Side Plate (R)
PTT 3x8
♦ 4-864-426-00 (B) Bracket (A), pulley
♦ 1 601 436 00 (B) Printed Circuit Board, LED
♦ 4 864 701 00 (B) Panel, display
4 812 134 00 (A) Rivet, plastic
♦ 4 864 702 00 (B) Escutcheon, display panel
♦ 1-601-435-00 (C) Printed Circuit Board, tuning switch
♦ 1-560-283-00 (B) Pin, 8p; connector
1-553-061-00 (K) Switch, pushbutton; PROGRAMMED TUNING (S10)
♦ 1-555-076-00 (C) Lead Wire, w/connector
♦ 4 864 703 00 (B) Bracket, switch

Note:

- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (-) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SECTION 6
ELECTRICAL PARTS LIST

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*	*Description*
	PRINTED CIRCUIT BOARDS	
♦	1-601-424-00	Ⓑ Set Switch
♦	1-601-425-00	Ⓑ Headphone
♦	1-601-426-00	Ⓑ Fuse
♦	1-601-435-00	Ⓒ Tuning Switch
♦	1-601-436-00	Ⓑ LED
	SEMICONDUCTORS	
	Transistors	
⇒ Q201–205	8-729-663-47	Ⓒ 2SC1364
Q301	8-729-334-58	Ⓑ 2SC1345
Q401–406	8-729-201-52	Ⓑ 2SA1015
⇒ Q501,551 ⇒ Q502,552	8-729-663-47	Ⓒ 2SC1364
Q601,651	8-729-201-52	Ⓑ 2SA1015
⇒ Q602,652	8-729-663-47	Ⓒ 2SC1364
Q801	8-729-201-52	Ⓑ 2SA1015
⇒ Q802	8-729-663-47	Ⓒ 2SC1364
Q803	8-729-217-33	Ⓒ 2SC1173
⇒ Q804	8-729-663-47	Ⓒ 2SC1364
	ICs	
IC201	8-751-680-01	Ⓘ CX168
IC202	8-751-780-00	Ⓖ CX178
IC203	8-759-904-89	Ⓓ TL489CP
IC701	8-759-301-25	Ⓛ SI1125HD Endst.
	Diodes	
D201,202	8-719-815-55	Ⓑ 1S1555
D203–207	8-719-909-31	Ⓑ GL9NG31
D208	8-719-909-22	Ⓑ GL9NG21
D209	8-719-909-21	Ⓑ GL9PR21
D301,302	8-719-100-81	Ⓓ ISV118
D401–409	8-719-815-55	Ⓑ 1S1555
⇒ D701	8-719-931-07	Ⓑ EQB01-07
D801	⚠ 8-179-502-20	Ⓒ S2VB20
⇒ D805	⚠ 8-719-900-93	Ⓑ V09C
⇒ D806	8-719-931-05	Ⓑ EQB01-05
⇒ D807	8-719-931-15	Ⓑ EQB01-15
D809,810	8-719-815-55	Ⓑ 1S1555
	COILS	
L301, 303	1-401-831-00	Ⓔ MW/LW Ferrite-rod Ant
L302	1-401-822-00	Ⓑ SW Ant
L304	1-405-881-00	Ⓑ MW Osc
L305	1-405-885-00	Ⓑ SW Osc
L306	1-405-882-00	Ⓑ LW Osc
L307	1-407-169-XX	Ⓐ 100μH, microinductor
L308	1-401-819-00	Ⓑ LW Ant
L309	1-407-709-00	Ⓐ 220μH, microinductor
L310	1-407-210-XX	Ⓐ 22 mH, microinductor
	TRANSFORMERS	
IFT201	1-409-323-00	Ⓑ AM IFT
IFT202	1-409-324-00	Ⓑ AM IFT
IFT203	1-404-167-00	Ⓓ FM Discriminator
T801	⚠ 1-446-531-00	Ⓞ Power
	CAPACITORS	

All capacitors are in μF. Common capacitors are omitted.
Refer to the list on page 39 and 40 for their part numbers. p: μμF, elect: electrolytic

C245,246	1-131-451-00	Ⓑ 0.1	16V	tantalum
C252	1-123-319-00	Ⓑ 47	16V	elect

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "♦" are not stocked because they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	Part No.	Description
C304,310	1-121-911-00	Ⓑ 0.47 50V elect
C312	1-102-288-00	Ⓑ 12p
C315	1-102-300-00	Ⓑ 18p
C317	1-102-622-00	Ⓐ 75p
C801,802	⚠ 1-125-155-00	Ⓔ 6800 35V elect
C803	⚠ 1-123-061-00	Ⓒ 1000 50V elect
C808	⚠ 1-108-421-00	Ⓑ 0.01 200V mylar
C810,811	⚠ 1-130-456-00	Ⓒ 0.022 250V film
C812–815	⚠ 1-108-389-00	Ⓑ 0.1 100V mylar
CT301–305	1-141-171-XX	Ⓑ Trimmer
CT306	1-141-181-11	Ⓑ Trimmer

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted.
Refer to the list on page 38 for their part numbers.

R217,238	1-217-399-00	Ⓑ 100	¼W	fusible
R705,755	1-212-950-00	Ⓑ 4.7	½W	fusible
R706,756	1-212-958-00	Ⓑ 10	½W	fusible
R707,757	1-247-228-00	Ⓐ 330	½W	carbon (nonflammable)
R709	1-212-849-00	Ⓑ 4.7	¼W	fusible
R806	1-206-475-00	Ⓐ 33	2W	metal oxide (nonflammable)
R817	1-213-146-00	Ⓐ 1.8k	1W	metal oxide (nonflammable)
⇒ RT201	1-226-238-00	Ⓐ 50 k-B, adjustable; muting level		
RT202	1-226-236-00	Ⓐ 10 k-B, adjustable; FM stereo separation		
⇒ RT203	1-226-235-00	Ⓐ 5 k-B, adjustable; VCO		
RT801–803	1-226-664-00	Ⓑ 2.2 k-B, adjustable; FM frequency coverage, MW frequency coverage		
RT804–806	1-226-663-00	Ⓑ 1 k-B, adjustable; FM frequency coverage, MW frequency coverage		
VR601,651, VR602	1-226-675-00	Ⓖ 250 k-B/250 k-B, variable; VOL, BAL		
VR603,653, VR604,654	1-226-345-00	Ⓓ 100 k-C, variable; BASS, TREBLE		

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
		SWITCHES
S1	1-553-066-00	Ⓕ Rotary, Band Selector
S2–4	1-553-094-00	Ⓔ 3-key, FUNCTION
S5,6	1-553-093-00	Ⓓ 2-key, LOUDNESS, MODE
S7,8	1-553-065-00	Ⓒ Pushbutton, PROGRAM
S9	1-553-092-00	Ⓑ Pushbutton, MW/LW ANTENNA
S10	1-553-061-00	Ⓚ Pushbutton, PROGRAMMED TUNING
S11	⚠ 1-553-091-00	Ⓔ Rotary, POWER
		MISCELLANEOUS
CB701,751	1-532-564-00	Ⓒ Circuit Breaker
CF201	1-527-534-00	Ⓓ Filter, solid state
CF202	1-527-403-00	Ⓒ Filter, mechanical
CNJ801, CNJ802	⚠ 1-526-636-00	Ⓔ AC Outlet (AEP, UK model)
F801	⚠ 1-532-285-00	Ⓑ Fuse, T1.25A
FE201	1-463-291-00	Ⓛ FM Front-end Unit
J501–503, J551–553	1-507-521-00	Ⓔ Jack, phono; 6-p, PHONO, TAPE, REC OUT
J701	1-507-658-00	Ⓒ Jack, HEADPHONES
TM201,801	1-536-446-XX	Ⓑ Terminal, 4-p; ANTENNA, SPEAKER
	⚠ 1-533-131-00	Ⓐ Holder, fuse
	1-536-523-00	Ⓑ Terminal, ground
	⚠ 1-551-896-00	Ⓔ Cord, power (AEP model)
	⚠ 1-551-908-00	Ⓔ Cord, power (SCN model)
	⚠ 1-551-962-00	Ⓔ Cord, power (UK model)
	⚠ 1-551-966-00	Ⓖ Adaptor, power cord (AEP model)
	⚠ 1-551-967-00	Ⓔ Adaptor, power cord (UK model)
	♦ A-4409-259-A	Complete Circuit Board, tuner
	♦ 1-420-872-00	Ⓑ Coil
	♦ 1-535-115-00	Ⓐ Terminal, 2p
	♦ 1-535-116-00	Ⓐ Terminal, 3p
	♦ 1-535-118-00	Ⓐ Terminal, 5p
	♦ 1-535-119-00	Ⓐ Terminal, 6p
	♦ 1-535-139-00	Ⓐ Base
	♦ 1-535-140-00	Ⓐ Base

Items marked "♦" are not stocked because they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*	*Description*
♦	1-555-076-00	Ⓒ Lead Wire, w/connector
♦	1-555-078-11	Ⓔ Lead Wire, w/connector (FM)
♦	1-555-078-21	Ⓔ Lead Wire, w/connector (AM)
♦	1-560-283-00	Ⓑ Pin 8-p, connector

Items marked "♦" are not stocked because they are seldom required for routine service. Some delay should be anticipated when ordering these items.

ACCESSORIES AND PACKING MATERIALS

Part No.	*Description*
1-501-184-00	Ⓒ Antenna, ribbon
1-501-193-00	Ⓑ Antenna
3-701-630-00	Ⓐ Bag, plastic
3-770-983-11	Ⓒ Manual, instruction
3-794-576-11	Ⓑ Card, manual
4-864-402-00	Ⓑ Cushion, bottom
4-864-403-00	Ⓑ Cushion (L), upper
4-864-404-00	Ⓑ Cushion (R), upper
4-864-484-00	Ⓔ Carton
4-891-037-00	Ⓑ Bag, plastic

1/4 WATT CARBON RESISTORS Ⓐ

Note: Circled letter Ⓐ is applicable to European models only.

Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

ELECTROLYTIC CAPACITORS

Note: Circled letter (Ⓐ to Ⓩ) are applicable to European models only.

CAP. (μF)	RATING → : Use the high voltage rated one.					
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					→	1-121-726-00 Ⓐ
1.0					→	1-121-391-00 Ⓐ
2.2					→	1-121-450-00 Ⓐ
3.3	→	→	→	1-121-392-00 Ⓐ	→	1-121-393-00 Ⓐ
4.7	→	→	→	1-121-395-00 Ⓐ	→	1-121-396-00 Ⓐ
10	→	→	1-121-651-00 Ⓐ	1-121-398-00 Ⓐ	→	1-121-738-00 Ⓐ
22	→	→	1-121-479-00 Ⓐ	1-121-480-00 Ⓐ	1-121-662-00 Ⓐ	1-121-152-00 Ⓐ
33	→	→	1-121-403-00 Ⓐ	1-121-404-00 Ⓐ	1-121-652-00 Ⓑ	1-121-405-00 Ⓐ
47	→	1-121-352-00 Ⓐ	1-121-409-00 Ⓐ	1-121-410-00 Ⓐ	1-121-653-00 Ⓑ	1-121-411-00 Ⓐ
100	→	1-121-414-00 Ⓐ	1-121-415-00 Ⓐ	1-121-416-00 Ⓐ	1-121-357-00 Ⓑ	1-121-417-00 Ⓑ
220	1-121-419-00 Ⓑ	1-121-420-00 Ⓑ	1-121-421-00 Ⓐ	1-121-422-00 Ⓑ	1-121-261-00 Ⓒ	1-121-423-00 Ⓑ
330	1-121-751-00 Ⓑ	1-121-805-00 Ⓑ	1-121-521-00 Ⓒ	1-121-654-00 Ⓑ	1-121-655-00 Ⓓ	1-121-656-00 Ⓒ
470	1-121-424-00 Ⓑ	1-121-425-00 Ⓒ	1-121-426-00 Ⓒ	1-121-733-00 Ⓑ	1-121-361-00 Ⓔ	1-121-810-00 Ⓓ
1000	–	1-121-736-00 Ⓒ	1-121-245-00 Ⓓ	1-121-657-00 Ⓓ	1-121-388-00 Ⓔ	1-123-061-00 Ⓕ
2200	1-121-658-00 Ⓑ	1-121-659-00 Ⓒ	1-121-660-00 Ⓓ	1-123-067-00 Ⓕ	1-121-984-00 Ⓕ	–
3300	1-121-661-00 Ⓓ	1-123-075-00 Ⓔ	1-123-071-00 Ⓕ	–	–	–

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	–	–	–	–
1.0	1-123-249-00 Ⓐ	1-123-252-00 Ⓐ	1-123-003-00 Ⓑ	1-121-168-00 Ⓑ
2.2	1-123-250-00 Ⓐ	1-123-026-00 Ⓑ	–	1-123-028-00 Ⓑ
3.3	1-121-995-00 Ⓐ	–	1-123-004-00 Ⓑ	1-123-006-00 Ⓒ
4.7	1-123-255-00 Ⓐ	1-121-246-00 Ⓑ	1-121-759-00 Ⓑ	1-123-007-00 Ⓓ
10	1-121-126-00 Ⓑ	1-121-999-00 Ⓑ	1-123-254-00 Ⓒ	1-123-008-00 Ⓓ
22	1-121-996-00 Ⓒ	1-123-253-00 Ⓒ	1-123-005-00 Ⓓ	1-123-022-00 Ⓓ
33	1-121-997-00 Ⓒ	1-121-757-00 Ⓒ	–	–
47	1-123-251-00 Ⓒ	1-121-919-00 Ⓒ	–	–
100	1-123-084-00 Ⓔ	–	–	–

CERAMIC CAPACITORS Ⓐ

CAP. (pF)	RATING							
	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.	
	PART No.		PART No.		PART No.		PART No.	
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00	
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00	
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00	
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00	
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00	
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00	
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00	
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00	
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00	
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00	
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00	
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00	
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00	
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00	
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00	
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00			
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00			
16	1-102-952-00	110	1-102-815-00					
18	1-102-953-00	120	1-102-816-00					
20	1-102-958-00	130	1-101-081-00					

0.001μF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS Ⓐ

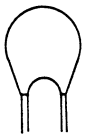
CAP. (μF)	RATING → : Use the high voltage rated one.				
	25 VOLT.	50 VOLT.	CAP. (μF)	25 VOLT.	50 VOLT.
	PART No.	PART No.		PART No.	PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

MYLAR CAPACITORS Ⓐ

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

CAP. (μF)	RATING 50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	–	–
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	–	–
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	–	–
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	–	–
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

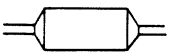
TANTALUM CAPACITORS



RATING → : Use the high voltage rated one.

CAP. (μF)	3.15 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	25 VOLT. PART No.	35 VOLT. PART No.
0.01					→	→	1-131-396-00 Ⓑ
0.015						→	1-131-397-00 Ⓑ
0.022						→	1-131-398-00 Ⓑ
0.033						→	1-131-399-00 Ⓑ
0.047						→	1-131-400-00 Ⓑ
0.068					→	→	1-131-401-00 Ⓑ
0.1					→	→	1-131-402-00 Ⓑ
0.15					→	→	1-131-403-00 Ⓑ
0.22					→	→	1-131-404-00 Ⓑ
0.33					→	1-131-409-00 Ⓑ	1-131-405-00 Ⓑ
0.47	–	–	–	–	1-131-412-00 Ⓑ	→	1-131-406-00 Ⓑ
0.68	–	–	–	1-131-415-00 Ⓑ	→	1-131-410-00 Ⓑ	1-131-407-00 Ⓑ
1.0	–	–	1-131-418-00 Ⓑ	–	1-131-413-00 Ⓑ	→	1-131-408-00 Ⓑ
1.5	–	1-131-421-00 Ⓑ	–	1-131-416-00 Ⓑ	→	1-131-411-00 Ⓑ	1-131-348-00 Ⓑ
2.2	1-131-424-00 Ⓑ	–	1-131-419-00 Ⓑ	–	1-131-414-00 Ⓑ	1-131-355-00 Ⓑ	1-131-349-00 Ⓑ
3.3	–	1-131-422-00 Ⓑ	–	1-131-417-00 Ⓑ	1-131-362-00 Ⓑ	1-131-356-00 Ⓑ	1-131-350-00 Ⓑ
4.7	1-131-425-00 Ⓑ	–	1-131-420-00 Ⓑ	1-131-369-00 Ⓑ	1-131-363-00 Ⓑ	1-131-357-00 Ⓑ	1-131-351-00 Ⓒ
6.8	–	1-131-423-00 Ⓑ	1-131-376-00 Ⓑ	1-131-370-00 Ⓑ	1-131-364-00 Ⓑ	1-131-358-00 Ⓒ	1-131-352-00 Ⓒ
10	1-131-426-00 Ⓑ	1-131-383-00 Ⓑ	1-131-377-00 Ⓑ	1-131-371-00 Ⓑ	1-131-365-00 Ⓒ	1-131-359-00 Ⓒ	1-131-353-00 Ⓓ
15	1-131-390-00 Ⓑ	1-131-384-00 Ⓑ	1-131-378-00 Ⓑ	1-131-372-00 Ⓑ	1-131-366-00 Ⓒ	1-131-360-00 Ⓓ	–
22	1-131-391-00 Ⓑ	1-131-385-00 Ⓑ	1-131-379-00 Ⓒ	1-131-373-00 Ⓒ	1-131-367-00 Ⓓ		
33	1-131-392-00 Ⓑ	1-131-386-00 Ⓒ	1-131-380-00 Ⓒ	1-131-374-00 Ⓓ			
47	1-131-393-00 Ⓒ	1-131-387-00 Ⓒ	1-131-381-00 Ⓓ	–			
68	1-131-394-00 Ⓑ	1-131-388-00 Ⓒ	–	–			
100	1-131-395-00 Ⓓ	–	–	–			

TANTALUM CAPACITORS



CAP. (μF)	RATING 3 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	35 VOLT. PART No.
0.033						1-131-273-00 Ⓔ
0.047						1-131-274-00 Ⓔ
0.068						1-131-275-00 Ⓔ
0.1						1-131-276-00 Ⓓ
0.15						1-131-277-00 Ⓓ
0.22			–	–	1-131-262-00 Ⓓ	1-131-278-00 Ⓓ
0.33			–	–	1-131-263-00 Ⓓ	1-131-279-00 Ⓓ
0.47			1-131-169-00 Ⓓ	–	1-131-264-00 Ⓓ	1-131-280-00 Ⓓ
0.68			–	1-131-258-00 Ⓓ	1-131-265-00 Ⓓ	1-131-281-00 Ⓓ
1.0			1-131-254-00 Ⓓ	–	1-131-266-00 Ⓓ	1-131-282-00 Ⓓ
1.5		1-131-250-00 Ⓓ	–	–	1-131-267-00 Ⓓ	1-131-283-00 Ⓔ
2.2		–	–	1-131-259-00 Ⓓ	1-131-268-00 Ⓓ	1-131-284-00 Ⓔ
3.3		–	1-131-255-00 Ⓓ	–	1-131-269-00 Ⓓ	–
4.7		1-131-251-00 Ⓔ	1-131-171-00 Ⓓ	–	1-131-270-00 Ⓓ	–
6.8		–	–	1-131-260-00 Ⓓ	1-131-271-00 Ⓔ	–
10	–	–	1-131-256-00 Ⓓ	–	1-131-272-00 Ⓔ	–
15	–	1-131-252-00 Ⓓ	–	1-131-261-00 Ⓔ		
22	–	–	1-131-257-00 Ⓔ	–		
33	1-131-176-00 Ⓓ	1-131-253-00 Ⓔ	1-131-173-00 Ⓒ	–		
47	1-131-288-00 Ⓕ	1-131-174-00 Ⓓ	–	–		
100	1-131-177-00 Ⓓ					

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9-958-706-01

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Printed in Japan